

**GROUNDWATER MONITORING REPORT
MARCH 2010**

**GENERAL ELECTRIC PUERTO RICO INVESTMENT, INC.
PATILLAS, PUERTO RICO**

Prepared For:
General Electric Energy

Prepared By:
MWH Americas, Inc.

May 2010

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MARCH 2010
GENERAL ELECTRIC PUERTO RICO INVESTMENT, INC.
PATILLAS, PUERTO RICO**

FOR

**General Electric Energy
Schenectady, New York
United States**

Prepared By



Bradly Toth
Lead Scientist
MWH Americas, Inc.

May 20, 2010

Date

Reviewed By



Kim Kesler-Arnold
Principal Project Manager
MWH Americas, Inc

May 20, 2010

Date

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ACRONYMS AND ABBREVIATIONS

1,1,1-TCA	1,1,1-Trichloroethane
1,1,2-TCA	1,1,2-Trichloroethane
1,1-DCA	1,1-Dichloroethane
1,1-DCE	1,1-Dichloroethene
1,2-DCA	1,2-Dichloroethane
amsl	above mean sea level
COC	constituent of concern
DO	dissolved oxygen
ft/ft	feet per foot
GE	General Electric Energy
HCl	hydrochloric acid
IDW	investigation derived waste
MCL	Maximum Contaminant Level
ORP	oxidation-reduction potential
PPE	personal protection equipment
QA/QC	quality assurance/quality control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SOP	standard operating procedure
SWMU	Solid Waste Management Unit
VOCs	volatile organic compounds
µg/l	micrograms per liter
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

This Groundwater Monitoring Report describes the activities performed I March 2010 to evaluate groundwater quality beneath and downgradient of the General Electric (GE) Puerto Rico Investment facility (Site) located in Patillas, Puerto Rico. During this effort, MWH performed the following activities:

- Measured groundwater elevations from the existing onsite and accessible offsite monitoring wells.
- Collected groundwater samples for analysis to provide recent groundwater quality data onsite and offsite.

These activities were performed in accordance with the *Groundwater Modeling Work Plan* (MWH, December 2007), which was approved by the U.S. Environmental Protection Agency (USEPA) in March 2009. This quarterly groundwater monitoring event (March 2010) is the fourth of four events associated with work plan. The previous events were performed in June, September, and December 2009. The need for future actions and a long-term sampling program will be evaluated in conjunction with USEPA.

In addition, this document provides a Site Progress Report for the Site in accordance with the Administrative Order on Consent (March 29, 1988).

2.0 PROJECT BACKGROUND

The Site is located on the southeastern coast of Puerto Rico at Road #3, Km 122.9, Patillas, Puerto Rico. The Site location is shown on **Figure 1**. The Site covers approximately 7.8 acres. From November 1974 to March 1987, GE (operating as Caribe General Electric Products) manufactured and assembled electro-mechanical products. A French Sump was constructed at the facility in 1977 and was used for waste disposal until 1980. The location of the sump is shown on **Figure 2**. The Site was idle from 1987 to 1993, when no manufacturing operations were conducted. Since 1993, GE has used the facility for warehousing and assembly operations under the current name of GE Puerto Rico Investment, Inc.

In October 1990, soils in and adjacent to the former French Sump were excavated, stabilized, and shipped to a Resource Conservation and Recovery Act (RCRA)-approved landfill. The USEPA accepted the closure of the sump as complete in March 1991. The impacted groundwater that is the subject of this investigation is associated with the former French Sump and extends south-southwest from the facility to the flood plain of the Rio Grande de Patillas.

Investigation of the groundwater impacts in the area of the French Sump began in 1989 as part of a RCRA Facility Investigation (RFI). Eleven onsite monitoring wells were installed adjacent to and downgradient of the former French Sump (see **Figure 2**). Five monitoring wells were also installed offsite to assess groundwater quality. Of the total 16 wells, one onsite well (P-4A) was abandoned; one offsite well (P-12) cannot be located and was presumably destroyed; and four offsite wells (P-13S, P-13D, P-14S, and P-14D) have had their access permission rescinded by the property owner.

The *RFI Report* (SEC, 1991) was submitted to the USEPA in 1991. Quarterly groundwater sampling was conducted from 1991 through 1999. Volatile organic compounds (VOCs), namely 1,1,1-trichloroethane (1,1,1-TCA) and 1,1-dichloroethene (1,1-DCE), were identified in the RFI Report as the constituents of concern (COCs) in groundwater within the alluvial/colluvial aquifer beneath the Site. The extent of 1,1,1-TCA does not extend offsite. However, the extent of 1,1-DCE impacted groundwater extends offsite to the south-southwest, which is generally consistent with the direction of apparent groundwater flow.

In 2003, GE installed six additional monitoring wells offsite to determine the extent of the 1,1-DCE in groundwater. The results of this investigation were provided to USEPA in a *Supplemental RFI Report* (EarthTech, 2005). USEPA's response to this *Supplemental RFI Report* stated that the information was not sufficient to determine the extent of impacted groundwater, and therefore the CA-750 determination could not be completed. At the time of the Supplemental RFI, the farthest downgradient wells (P-13S/D and P-14S/D) had not been sampled for nine years, and access to these wells had been rescinded. From 1991 through 1996, these wells were sampled eight times and VOCs were not detected.

In 2006, GE installed an additional monitoring well cluster (P-20S and P-20D) to further delineate the extent of 1,1-DCE in groundwater. Analytical results from the shallow well (P-20S) did not show the presence of 1,1-DCE. However, groundwater samples from the deeper well (P-20D) indicated 1,1-DCE downgradient and offsite at a concentration of 37 to 44 micrograms per liter ($\mu\text{g/l}$), which is greater than its Maximum Contaminant Level (MCL) of 7 $\mu\text{g/l}$.

Based on these results, the USEPA requested that GE pursue access to additional downgradient properties to install monitoring wells to further define the extent of the 1,1-DCE in groundwater. GE intended to install these additional wells downgradient of P-20S/D and upgradient of P-13S/D and P-14S/S. Although numerous attempts were made by GE, access was not granted to the properties, and the wells could not be installed. As a result, GE and USEPA agreed that the project should move forward to estimate the extent of 1,1-DCE in groundwater without the use of these wells.

In June 2009, GE performed a groundwater monitoring event, and in July 2009, GE performed fate and transport modeling to estimate the extent of 1,1-DCE in groundwater. The output of the model, which contained the necessary information to make the CA-750 determination, was provided to USEPA in September 2009. The model estimated that 1,1-DCE may have reached the Rio Grande de Patillas at a concentration of 23 $\mu\text{g/L}$. This concentration is less than 10 times the MCL for 1,1-DCE (7 $\mu\text{g/L}$) and is considered an insignificant discharge to a surface water by USEPA (*Documentation of Environmental Indicator Determination, RCRA Corrective Action, Environmental Indicator (EI) RCRIS code (CA750), Migration of Contaminated Groundwater Under Control*, Interim Final 2/5/99).

Subsequent to the fate and transport modeling and at the request of the USEPA, GE performed additional groundwater monitoring events (September 2009, December 2009, and March 2010). The results of the September and December 2009 monitoring events were previously submitted to USEPA. This report summarizes the field activities and results of the March 2010 monitoring event.

3.0 FIELD ACTIVITIES

The following field activities were performed during this monitoring event:

- Measuring groundwater elevations from onsite and accessible offsite monitoring wells.
- Collecting groundwater samples from monitoring wells for laboratory analysis.

These activities were performed by MWH during the week of March 15, 2010. The procedures used during these activities are described in the following sections.

3.1 DEPTH TO GROUNDWATER MEASUREMENTS

Depth to groundwater measurements were collected from onsite and accessible offsite monitoring wells. Water levels in offsite wells P-13S, P-13D, P-14S, and P-14D were not measured because the property owner would not allow access to the wells.

Groundwater depths were measured by using a decontaminated water-level meter to record the depth-to-water below a surveyed reference point (top of well casing). The water level meter was slowly lowered into the monitoring well until the meter was activated (as indicated by an audible tone). The depth-to-water reading was then measured at 30 second intervals until two consecutive readings were identical. This measurement was then recorded in the field notebook.

3.2 GROUNDWATER SAMPLING PROCEDURES AND ANALYSIS

The following 12 monitoring wells were sampled during this field event: P-7, P-7A, P-10A, P-15DD, P-16S, P-17D, P-18S, P-18D, P-19S, P-19D, P-20S, and P-20D. Well locations are indicated on **Figure 2**. Although planned for sampling, monitoring well P-8 did not contain sufficient water; and therefore, a groundwater sample could not be collected from this well.

The groundwater samples were collected in accordance with the USEPA Region II *Groundwater Sampling Procedure – Low Stress (Low Flow) Purging and Sampling*. For each monitoring well, the following sequence of activities was performed:

- The depth-to-water was measured in the monitoring well.

- The well was then purged using a submersible bladder pump with a new disposable bladder and unused, disposable discharge tubing.
- The following indicator parameters were measured using an in-line water quality meter: pH, specific conductivity, temperature, dissolved oxygen (DO), turbidity, and oxidation-reduction potential (ORP). Parameters were recorded every three to five minutes until they had stabilized for three consecutive readings.
- The depth-to-water in the monitoring well was monitored to ensure that drawdown did not exceed 0.3 feet and that the water level in the well was stable prior to sampling.
- After the parameters had stabilized, the in-line water quality measuring device was disconnected, and the groundwater sample was collected directly from the discharge tubing.
- Groundwater samples were collected in laboratory-supplied vials, which were pre-preserved with hydrochloric acid (HCl).

Field sampling records for each well are presented in **Appendix A**. The sample bottles were labeled with date, time, sample identification, analytical parameters, and the sampler's initials, and immediately placed on ice in a cooler. The cooler was maintained under chain-of-custody until arrival at the laboratory.

The following quality assurance/quality control (QA/QC) samples were collected during this event:

- Two field duplicates samples:
 - Dup-01 – duplicate of P-16S
 - Dup-02 – duplicate of P-19S
- Two equipment blank samples collected from the submersible sampling pump:
 - EB-01
 - EB-02
- One matrix spike/matrix spike duplicate (MS/MSD) from well P-19D
- One trip blank

Groundwater and QA/QC samples were analyzed for VOCs by USEPA Method SW846 8260B for the Appendix IX list of compounds by Lancaster Laboratories, Inc. of Lancaster, Pennsylvania. Analytical data were certified by a Puerto Rican chemist and validated in accordance with the USEPA Region II Standard Operating Procedure (SOP) HW-6 – CLP Organics Data Review and Preliminary Review. The data were found to be acceptable for use without significant qualification. The complete analytical data package is presented in ***Appendix B.***

Groundwater samples were collected using a bladder pump and dedicated, disposable tubing. The bladder pump was decontaminated before and between each use with an Alconox[®] wash and distilled water rinse. A new bladder and new tubing were used for each well.

3.3 INVESTIGATION DERIVED WASTE MANAGEMENT

Purge water and decontamination liquids were collected in 5-gallon buckets and transferred to a 55-gallon drum located onsite. The drum of investigation derived waste (IDW) was staged at a secure area on the GE facility. The IDW was disposed of by GE as non-hazardous waste through Clean Harbors Caribe, Inc. All used personal protective equipment (PPE) was collected in trash bags and disposed of as general refuse.

4.0 GROUNDWATER MONITORING RESULTS

4.1 GROUNDWATER ELEVATIONS

The depth to groundwater measurements and groundwater elevations for March 2010 are presented in **Table 1**. Groundwater is generally encountered 7 to 19 feet below ground surface, or 21 to 48 feet above mean sea level (amsl). Groundwater elevation contours for the shallow and deep aquifers are presented in **Figure 3a** and **Figure 3b**, respectively. Based on these contours the groundwater flow direction is generally southwest, towards the Quebrada Mamey and the Rio Grande de Patillas. The horizontal gradient for the shallow aquifer onsite is 0.024 vertical feet per horizontal foot (ft/ft). The horizontal hydraulic gradient for the deep aquifer offsite is 0.010 ft/ft. The vertical gradient between these two aquifers is approximately 0.125 ft/ft downward onsite and approximately 0.045 ft/ft downward offsite.

4.2 GROUNDWATER SAMPLE RESULTS

Groundwater sample results are presented in **Table 2** with the detected sample results posted in **Figure 4**. The following table summarizes the results for the compounds that were detected during the March 2010 sampling event (12 samples were collected). Concentrations are reported in micrograms per liter (µg/L).

Compound	Number of Detections	Lowest Detected Result	Highest Detected Result	MCL	# Detections Above MCL
1,1,1-Trichloroethane (1,1,1-TCA)	2	1	7	200	0
1,1,2-Trichloroethane (1,1,2-TCA)	0	NA	NA	5	NA
1,1-Dichloroethane (1,1-DCA)	6	2	17	2.4*	2
1,1-Dichloroethene (1,1-DCE)	11	1	630	7	8
1,2-Dichloroethane (1,2-DCA)	1	2	2	5	0
Chloroform	4	0.9	1	70**	0
Trichlorofluoromethane	1	3	3	1,300	0

* USEPA Risk-based Screening Level for tap water

** USEPA Maximum Contaminant Level Goal

As shown on the summary table, 1,1-DCA and 1,1-DCE were the most commonly detected VOCs, with 1,1-DCE the only compound exceeding the MCL. The highest VOC concentrations (primarily 1,1-DCA and 1,1-DCE) were detected in the sample collected from well P-10A, which is located onsite and downgradient of the former French Sump. The 1,1-DCE concentration for the farthest downgradient monitoring well sampled (MW-20D, located approximately 1,300 feet southwest of the former French Sump) was 22 µg/L. The approximate extent of 1,1-DCE in groundwater (based on the recent sample results) is presented in **Figure 5**. As shown in this figure, the extent of 1,1-DCE in the shallow zone is MW-20S; for the deep zone, the extent is not defined by the downgradient monitoring wells. As noted previously, wells located farther downgradient (P-13S/D and P-14S/D, as shown on **Figure 2**) could not be sampled because the property owner denied access to the wells. From 1991 through 1996, these wells did not contain VOCs at detectable levels.

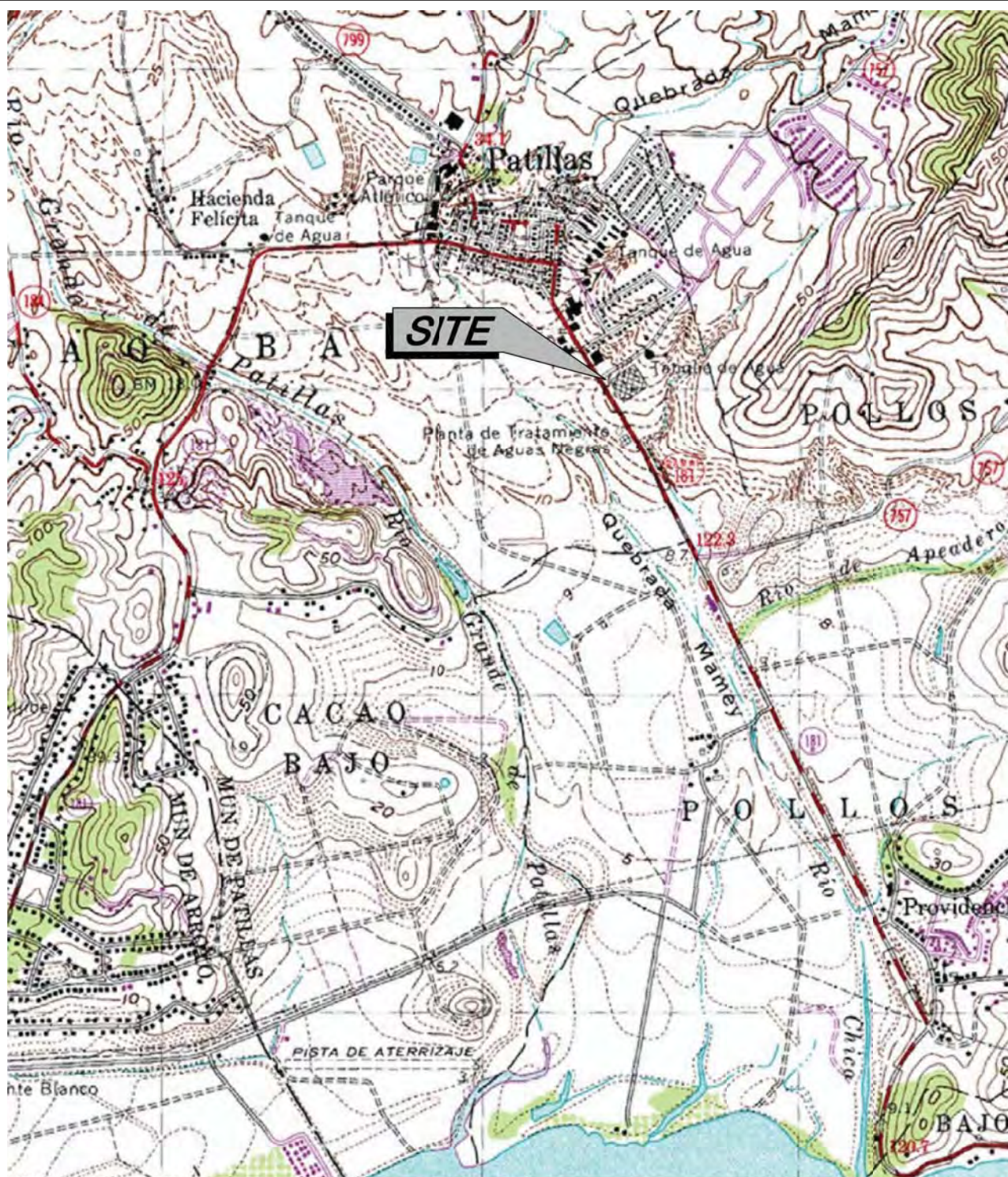
The historical sample results for constituents of concern in groundwater within the alluvial/colluvial aquifer are presented in **Table 3**. In general, the results obtained during the March 2010 monitoring event are consistent with the historical results. Trend graphs for 1,1-DCE concentrations in selected monitoring well are provided in **Appendix C**.

5.0 PROGRESS REPORTING

Appendix D contains the Progress Report for this reporting period (January 30 through May 1, 2010). The Progress Report was prepared in accordance with Section V.C. of the Site's Administrative Order on Consent (Order) dated March 29, 1988, and approved revisions (January 26, 2010).

A meeting between USEPA and GE was held on April 22, 2010, to discuss the extent of impacted groundwater and the need for further downgradient characterization. During this meeting, GE agreed to USEPA's request to continue groundwater monitoring on a quarterly basis for one additional year.

FIGURES



Source:
U.S.G.S. 7.5 minute quadrangle of Patillas,
Puerto Rico, Dated 1977, photorevised 1982.



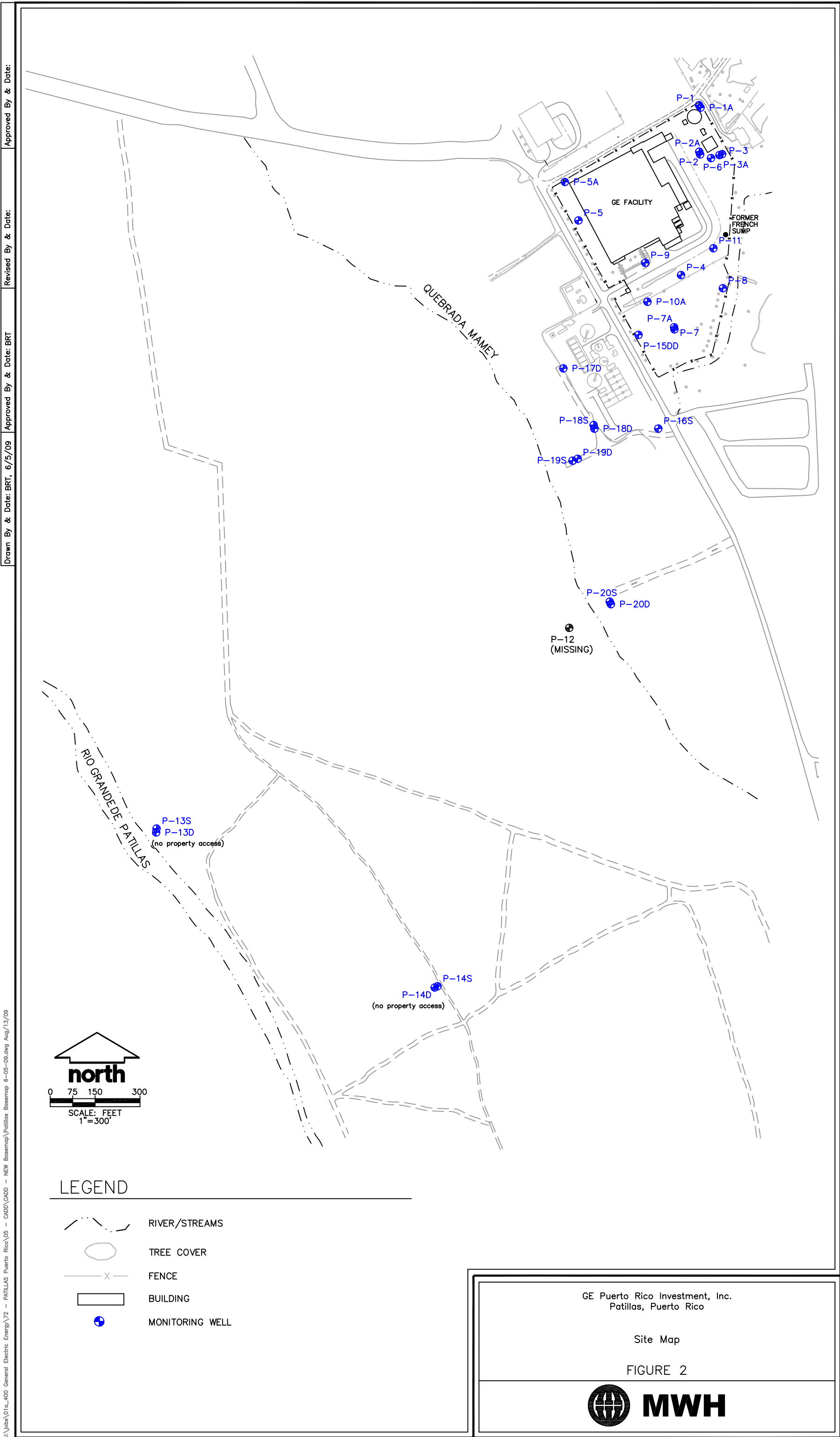
GE Puerto Rico Investment Inc.
Patillas, Puerto Rico

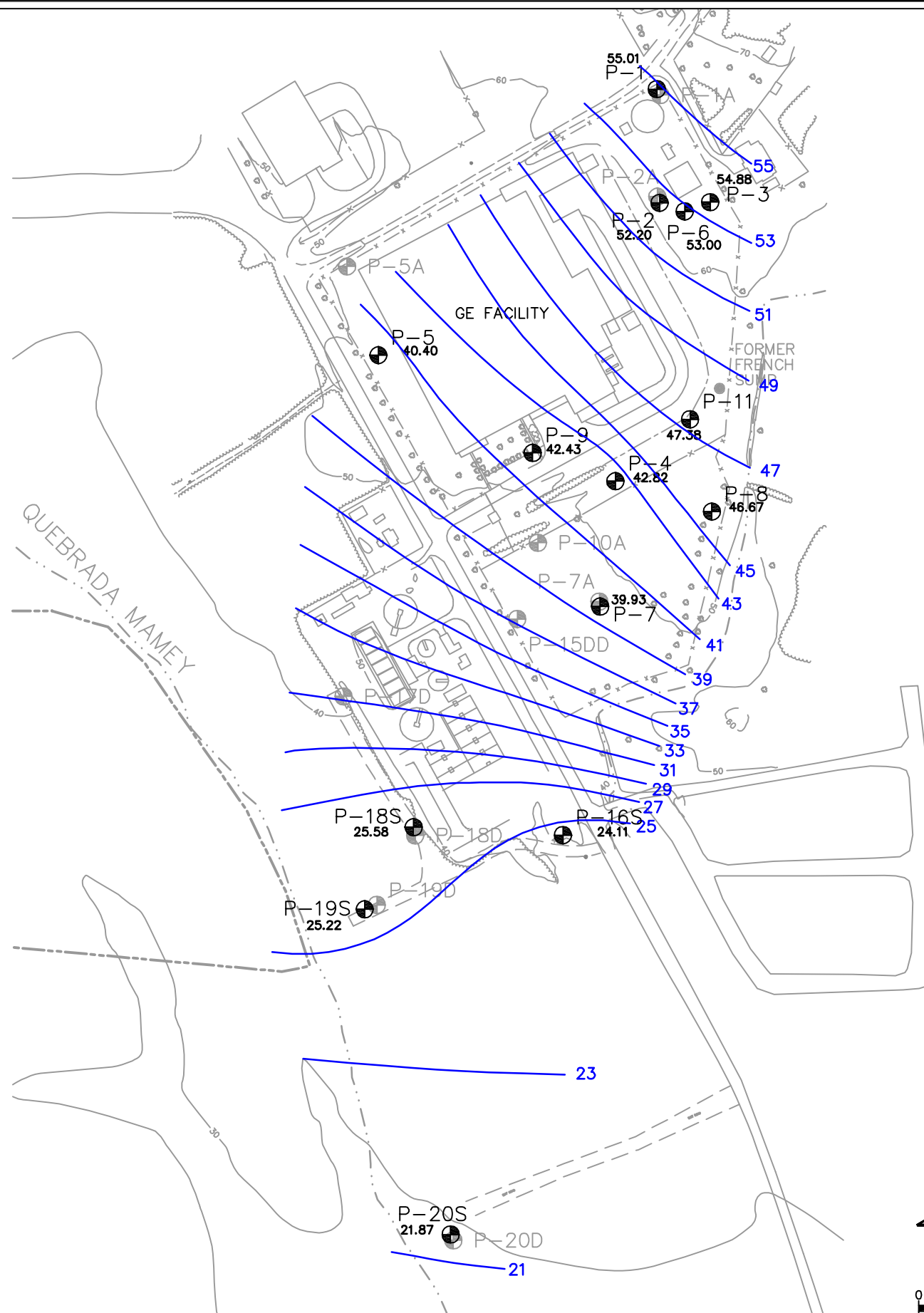
Site Location Map

Figure 1



MWH



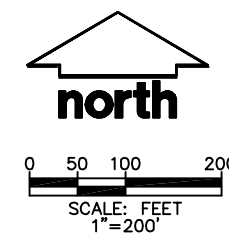


LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL (NOT USED FOR CONTOURING)
- MONITORING WELL
- EQUIPOTENTIAL CONTOUR, DASHED WHERE INFERRED
- 21.87 WATER TABLE ELEVATION (FEET ABOVE SEA LEVEL)

NOTES:

- CONTOUR INTERVAL = 2 FEET

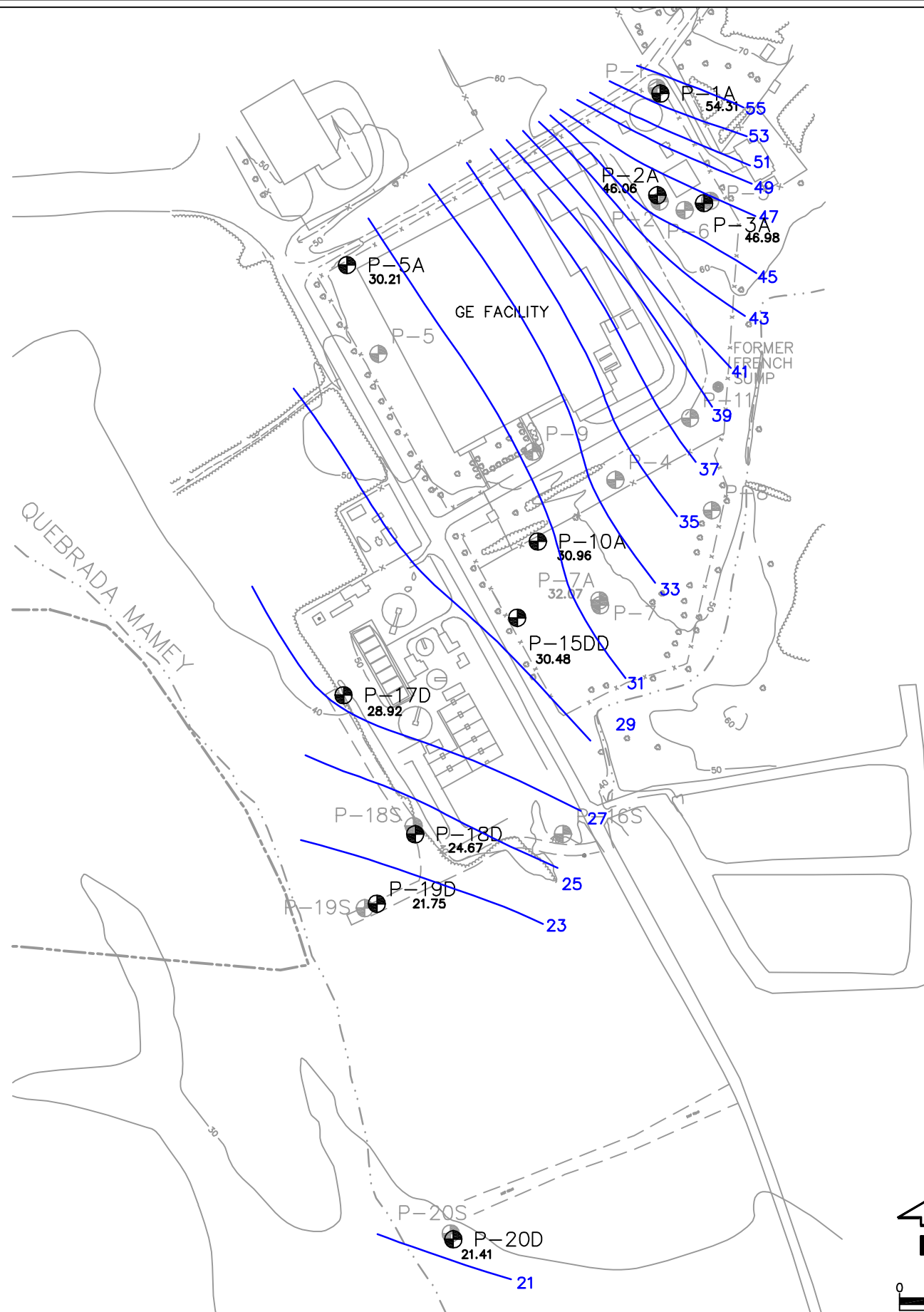


General Electric Puerto Rico Investment
Patillas, Puerto Rico

Shallow Groundwater Surface Map
March 2010

FIGURE 3a



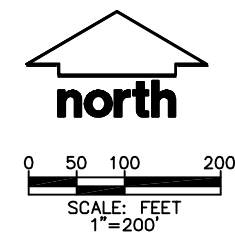


LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL (NOT USED FOR CONTOURING)
- MONITORING WELL
- EQUIPOTENTIAL CONTOUR, DASHED WHERE INFERRED
- WATER TABLE ELEVATION (FEET ABOVE SEA LEVEL)

NOTES:

- CONTOUR INTERVAL = 2 FEET
- WATER LEVEL AT P-7A WAS ANOMALOUS, AND THEREFORE NOT USED

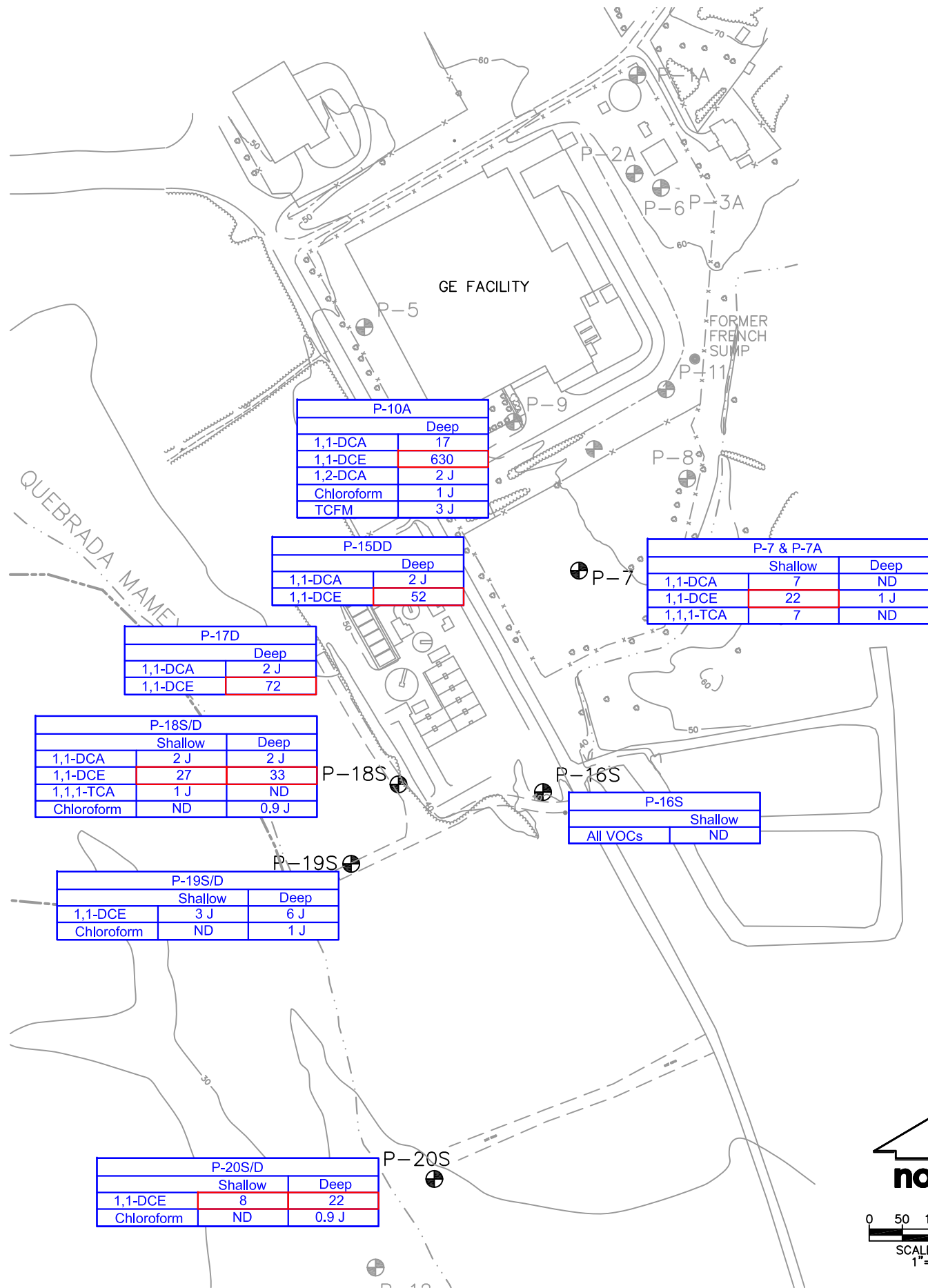


General Electric Puerto Rico Investment
Patillas, Puerto Rico

Deep Groundwater Surface Map
March 2010

FIGURE 3b





LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL (NOT SAMPLED)
- MONITORING WELL (SAMPLED)

NOTES:

Results are reported in micrograms per liter (ug/L).

Shallow – The well is screened in the upper portion of the alluvium/colluvium aquifer.

Deep – The well is screened in the lower portion of the alluvium/colluvium aquifer.

Compound		MCL
1,1,1-TCA	1,1,1-Trichloroethane	200
1,1,2-TCA	1,1,2-Trichloroethane	5
1,1-DCA	1,1-Dichloroethane	NA
1,1-DCE	1,1-Dichloroethene	7
1,2-DCA	1,2-Dichloroethane	5
	Chloroform	70*
TCFM	Trichlorofluoromethane	NA

*MCLG – Maximum Contaminant Level Goal

Sample Results that exceed MCLs are boxed in RED.

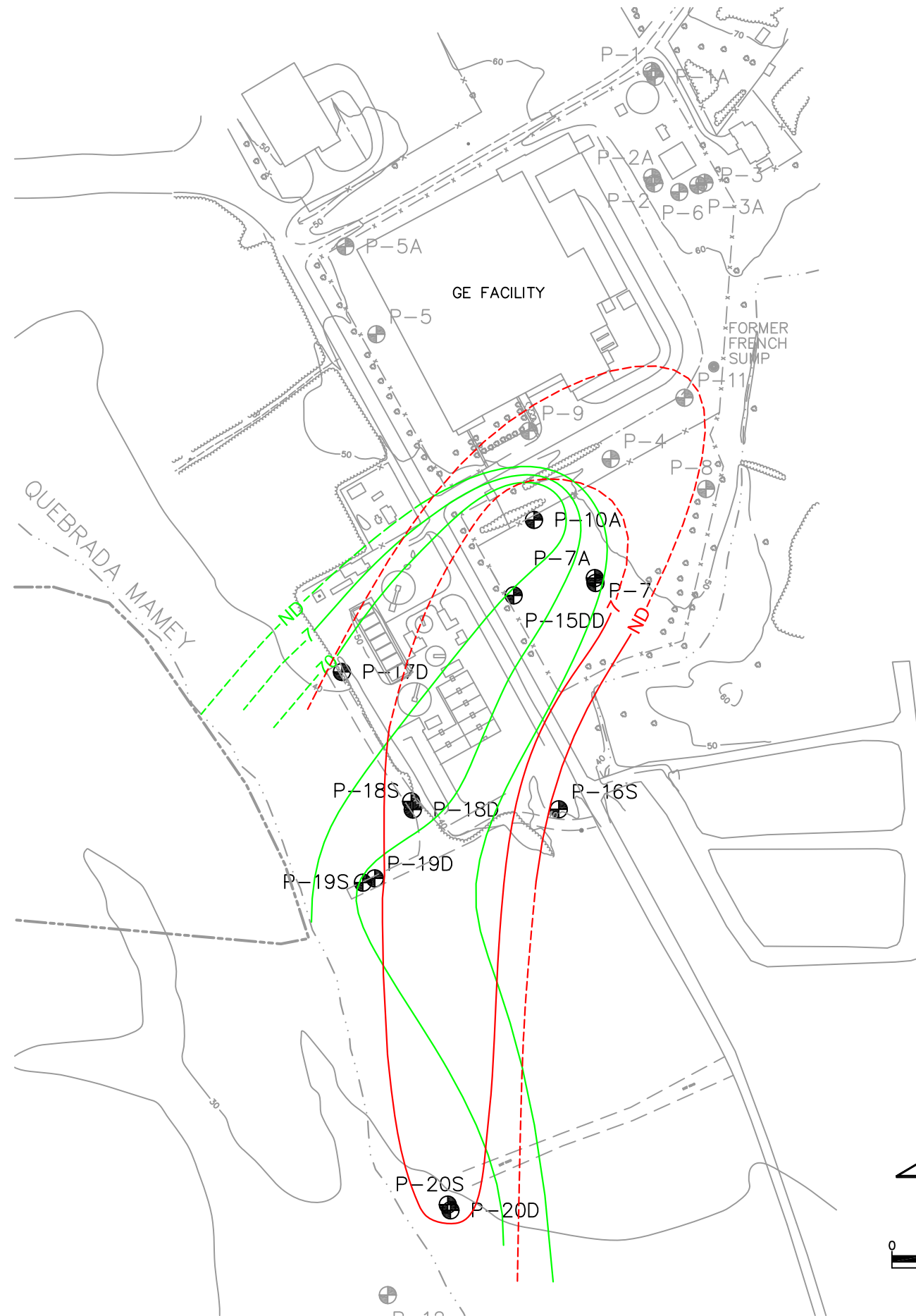
General Electric Puerto Rico Investment
Patillas, Puerto Rico

Groundwater Sample Results
March 2010

FIGURE 4



MWH



LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL (NOT SAMPLED)
- MONITORING WELL (SAMPLED)
- ISOCONTOUR 1,1-DCE IN SHALLOW GROUNDWATER
- ISOCONTOUR 1,1-DCE IN DEEP GROUNDWATER

NOTES:

Concentrations are reported in micrograms per liter (ug/L).
Dashed where inferred.

Shallow – The well is screened in the upper portion of the
alluvium/colluvium aquifer.

Deep – The well is screened in the lower portion of the
alluvium/colluvium aquifer.

General Electric Puerto Rico Investment
Patillas, Puerto Rico

Extent of 1,1-DCE in Groundwater
March 2010

FIGURE 5



TABLES

Table 1
Groundwater Elevation Data - March 2010
GE Puerto Rico Investment
Patillas, Puerto Rico

Well No.	Aquifer Zone	Well Install Date	Boring Depth (ft bgs)	Land Surface Elevation (ft amsl)	Top Of Casing Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
P-1	Shallow	8/1/86	25.50	67.54	68.71	13.70	55.01
P-1A	Deep Saprolite	8/7/86	70.00	67.47	68.71	14.40	54.31
P-2	Shallow	8/1/86	20.50	61.85	63.60	11.40	52.20
P-2A	Deep	8/20/86	69.00	62.23	63.46	17.40	46.06
P-3	Shallow	8/4/86	25.50	63.54	64.58	9.70	54.88
P-3A	Deep	8/15/86	70.00	63.23	64.68	17.70	46.98
P-4	Shallow	7/29/86	19.11	51.25	52.92	10.10	42.82
P-4A	<i>Abandoned</i>	7/31/86	63.00	51.66	52.88	NG	NG
P-5	Shallow	8/4/86	20.50	52.29	53.90	13.50	40.40
P-5A	Deep Saprolite	9/15/86	70.00	51.14	52.51	22.30	30.21
P-6	Shallow	8/30/88	26.00	63.05	63.70	10.70	53.00
P-7	Shallow	2/3/89	18.15	47.64	49.73	9.80	39.93
P-7A	Deep Saprolite	2/2/89	58.20	47.80	49.67	17.60	32.07
P-8	Shallow	2/3/89	17.70	52.19	54.87	8.20	46.67
P-9	Shallow	2/6/89	17.40	50.35	52.32	10.00	42.32
P-10A	Deep Alluvium/Sap	2/9/89	51.50	47.92	49.86	18.90	30.96
P-11	Shallow	2/8/89	13.20	52.95	54.68	7.30	47.38
P-12	Shallow	11/20/89	29.50	19.70	21.82	NG	NG
P-13D	Deep	6/28/91	62.74	20.40	22.10	NG	NG
P-13S	Shallow	7/5/91	28.70	19.59	23.25	NG	NG
P-14D	Deep	7/10/91	67.80	16.28	19.38	NG	NG
P-14S	Shallow	7/13/91	30.50	15.64	18.07	NG	NG
P-15DD	Bedrock	5/26/04	73.60	45.48	47.68	17.20	30.48
P-16S	Shallow	5/27/04	26.30	40.39	42.61	18.50	24.11
P-17D	Deep	6/1/04	61.00	38.26	41.02	12.10	28.92
P-18S	Shallow	5/28/04	16.60	36.55	39.08	13.50	25.58
P-18D	Deep	5/31/04	50.00	36.26	38.52	13.85	24.67
P-19S	Shallow	5/28/04	15.80	33.89	36.37	11.15	25.22
P-19D	Deep	6/30/04	36.50	34.32	36.45	14.70	21.75
P-20S	Shallow	5/4/06	26.00	31.70	34.67	12.80	21.87
P-20D	Deep	5/4/06	52.00	31.50	34.31	12.90	21.41

Horizontal coordinates in Puerto Rico State Plane (feet), Zone 1, NAD 27

bgs - Below Ground Surface

amsl - Above Mean Sea Level

btoc - Below Top of Casing

NG - Not Gauged (access to wells was denied by the property owner)

Table 2
Groundwater Sample Results - March 2010
GE Puerto Rico Investment
Patillas, Puerto Rico

	RSL or MCL*	P-7	P-7A	P-10A	P-15DD	P-16S	P-16S (duplicate)	P-17D	P-18S	P-18D	P-19S	P-19S (duplicate)	P-19D	P-20S	P-20D
Volatile Organic Compound (ug/L)															
1,1,1,2-Tetrachloroethane	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200*	7	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	1 J	1 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane	2.4	7	1 U	17	2 J	1 U	1 U	2 J	2 J	2 J	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7*	22	1 J	630	52	0.8 U	0.8 U	72	27	33	3 J	3 J	6 J	8	22
1,1-Dichloropropene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.0096	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	70*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	0.2	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane	0.05*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	600*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5*	1 U	1 U	2 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	730	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2-Dichloropropane	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	7,100	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
2-Chlorotoluene	730	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Chlorotoluene	2,600	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	2,000	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	22,000	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Benzene	5*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	20	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	0.12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	8.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	8.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Chloroethane	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	70**	0.8 U	0.8 U	1 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.9 J	0.8 U	0.8 U	1 J	0.8 U	0.9 J
Chloromethane	190	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
cis-1,3-Dichloropropene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	0.15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromomethane	370	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	390	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Ethylbenzene	700*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Hexachlorobutadiene	0.86	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Isopropylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Tertiary Butyl Ether	12	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	5*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
m-Xylene	1,400	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Naphthalene	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	1,400	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
p-Isopropyltoluene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	100*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Toluene	1000*	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene	100*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
trans-1,3-Dichloropropene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	1,300	2 U	2 U	3 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Vinyl Chloride	2*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Concentrations are reported in micrograms per liter (ug/L)
U - Non-Detect. The analyte was not detected above the indicated reporting limit.
J - Estimated. The analyte was detected below the reporting limit.
RSL - USEPA Regional Screening Level
*MCL - Maximum Contaminant Level; ** MCLG - Maximum Contaminant Level Goal
Results that exceed USEPA RSLs or MCLs are boxed.

Table 3
Historical Groundwater Sample Results
GE Puerto Rico Investment
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Shallow Zone Monitoring Wells								Deep Zone Monitoring Wells							
		1,1,1-TCA		1,1-DCA		1,1-DCE				1,1,1-TCA		1,1-DCA		1,1-DCE	
RSL or MCL*		200*		2.4		7.0*		RSL or MCL*		200*		2.4		7.0*	
P-4	Feb-89	1.0	U	1.0	U	1.0	U	No associated deep well							
	Jul-91	1.0	U	1.0	U	1.0	U								
	Aug-92	1.0	U	1.0	U	1.0	U								
	Nov-92	1.0	U	1.0	U	1.0	U								
	Feb-93	1.0	U	1.0	U	1.0	U								
	May-93	1.0	U	1.0	U	1.0	U								
	May-94	1.0	U	1.0	U	1.0	U								
	Jun-95	1.0	U	1.0	U	1.0	U								
	Jul-96	1.0	U	1.0	U	1.0	U								
	Oct-97	1.0	U	1.0	U	1.0	U								
	Nov-98	1.0	U	1.0	U	1.0	U								
	Dec-99	1.0	U	1.0	U	1.0	U								
	Jun-04	1.0	U	1.0	U	1.0	U								
	Jun-09	1.0	U	1.0	U	1.0	U								
P-5	Feb-89	1.0	U	1.0	U	1.0	U	P-5A	Feb-89	1.0	U	1.0	U	1.0	U
	Aug-92	1.0	U	1.0	U	1.0	U		Aug-92	1.0	U	1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U		Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U		Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	1.0	U		May-93	1.0	U	1.0	U	1.0	U
	May-94	1.0	U	1.0	U	1.0	U		May-94	1.0	U	1.0	U	1.0	U
	Jun-95	1.0	U	1.0	U	1.0	U		Jun-95	1.0	U	1.0	U	1.0	U
	Jul-96	1.0	U	1.0	U	1.0	U		Jul-96	1.0	U	1.0	U	1.0	U
	Oct-97	1.0	U	1.0	U	1.0	U		Oct-97	1.0	U	1.0	U	1.0	U
	Nov-98	1.0	U	1.0	U	1.0	U		Nov-98	1.0	U	1.0	U	1.0	U
	Dec-99	1.0	U	1.0	U	1.0	U		Dec-99	1.0	U	1.0	U	1.0	U
P-7	Feb-89	20		1.0	U	31		P-7A	Feb-89	1.0	U	-		17	
	Jul-91	25		3.0		30			Jul-91	10		2.0		21	
	Aug-92	4.0		1.0	U	1.0	U		Aug-92	-		-		-	
	Nov-92	1.0	U	1.0	U	1.0	U		Nov-92	12		5.0		37	
	Feb-93	1.0	U	1.0	U	1.0	U		Feb-93	23		6.0		60	
	May-93	1.0	U	1.0	U	5.0			May-93	17		5.0		40	
	Aug-93	1.0	U	1.0	U	1.0	U		Aug-93	11		1.0	U	29	
	Nov-93	5.0		1.0	U	8.0			Nov-93	11		4.0		50	
	Feb-94	14		1.0	U	19			Feb-94	4.0		3.0		40	
	May-94	13		1.0	U	21			May-94	1.0	U	3.0		30	
	Sep-94	6.0		1.0	U	16			Sep-94	1.0	U	1.0	U	24	
	Nov-94	1.0	U	1.0	U	5.0			Nov-94	1.0	U	1.0	U	25	
	Mar-95	1.0	U	1.0	U	3.0			Mar-95	4.0		1.0	U	21	
	Jun-95	1.0	U	1.0	U	8.0			Jun-95	5.0		3.0		22	
	Oct-95	1.0	U	1.0	U	3.0			Oct-95	3.0		1.0	U	17	
	Jan-96	1.0	U	1.0	U	2.0			Jan-96	7.0		3.0		34	
	Apr-96	1.0	U	1.0	U	2.0			Apr-96	6.0		3.0		24	
	Jul-96	1.0	U	1.0	U	1.0	U		Jul-96	8.0		3.0		27	
	Oct-96	1.0	U	1.0	U	1.0	U		Oct-96	5.0		3.0		22	
	Feb-97	18		1.0	U	14			Feb-97	6.0		1.0	U	30	
	Jun-97	13		1.0	U	17			Jun-97	3.0		3.0		23	
	Oct-97	1.0	U	1.0	U	23			Oct-97	4.0		1.0	U	11	
	Feb-98	1.0	U	1.0	U	1.0	U		Feb-98	1.0	U	1.0	U	19	
	Jun-98	1.0	U	1.0	U	1.0	U		Jun-98	1.0	U	1.0	U	11	
	Nov-98	1.0	U	1.0	U	1.0	U		Nov-98	1.0	U	1.0	U	12	
	May-99	1.0	U	1.0	U	1.0	U		May-99	1.0	U	1.0	U	19	
	Aug-99	1.0	U	1.0	U	1.0	U		Aug-99	1.0	U	1.0	U	18	
	Dec-99	1.0	U	1.0	U	1.0	U		Dec-99	1.0	U	1.0	U	19	
	Dec-00	1.0	U	1.0	U	1.0	U		Dec-00	1.0	U	1.0	U	16	
	Dec-01	1.0	U	1.0	U	1.0	U		Dec-01	1.0	U	1.0	U	18	
	Jun-04	1.0	U	1.0	U	1.0	U		Jun-04	0.4		1.2		14	
	Jun-09	1.0	U	8.0		26			Jun-09	1.0	U	1.0	U	3.0	J
	Sep-09	11		13.0		51			Sep-09	0.8	U	1.0	U	3.0	J
	Dec-09	5		9.0		31			Dec-09	0.8	U	1.0	U	3.0	J
	Mar-10	7		7.0		22			Mar-10	0.8	U	1.0	U	1.0	J

Table 3
Historical Groundwater Sample Results
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Shallow Zone Monitoring Wells							Deep Zone Monitoring Wells						
		1,1,1-TCA		1,1-DCA		1,1-DCE			1,1,1-TCA		1,1-DCA	1,1-DCE	
RSL or MCL*		200*		2.4		7.0*	RSL or MCL*		200*		2.4	7.0*	
P-8	Feb-89	9.0		1.0	U	1.0	U	No associated deep well					
	Jul-91	1.0	U	1.0	U	1.0	U						
	Aug-92	1.0	U	1.0	U	1.0	U						
	Nov-92	1.0	U	1.0	U	1.0	U						
	Feb-93	1.0	U	1.0	U	1.0	U						
	May-93	1.0	U	1.0	U	1.0	U						
	May-94	1.0	U	1.0	U	1.0	U						
	Jun-95	1.0	U	1.0	U	1.0	U						
	Jul-96	1.0	U	1.0	U	1.0	U						
	Oct-97	1.0	U	1.0	U	1.0	U						
	Nov-98	2410		128		1120							
	May-99	9.0		1.0	U	7.0							
	Aug-99	1.0	U	1.0	U	1.0	U						
	Dec-99	2040		198		2020							
	Dec-00	1.0	U	1.0	U	1.0	U						
	Dec-01	1.0	U	1.0	U	1.0	U						
	Jun-04	586		61		360							
P-9	Feb-89	1.0	U	1.0	U	22		No associated deep well					
	Jul-91	1.0	U	2.0		13							
	Aug-92	1.0	U	1.0	U	18							
	Nov-92	1.0	U	3.0		19							
	Feb-93	1.0	U	1.0	U	16							
	May-93	1.0	U	1.0	U	9							
	Aug-93	1.0	U	1.0	U	15							
	Nov-93	2.0		2.0		13							
	Feb-94	1.0	U	1.0	U	12							
	May-94	1.0	U	1.0	U	10							
	Sep-94	1.0	U	1.0	U	11							
	Nov-94	1.0	U	1.0	U	10							
	Mar-95	1.0	U	1.0	U	8.0							
	Jun-95	1.0	U	1.0	U	8.0							
	Oct-95	1.0	U	1.0	U	6.0							
	Jan-96	1.0	U	1.0	U	10							
	Apr-96	1.0	U	1.0	U	9.0							
	Jul-96	1.0	U	1.0	U	8.0							
	Oct-96	1.0	U	1.0	U	7.0							
	Feb-97	1.0	U	1.0	U	9.0							
	Jun-97	1.0	U	1.0	U	8.0							
	Oct-97	1.0	U	1.0	U	6.0							
	Feb-98	1.0	U	1.0	U	1.0	U						
	Jun-98	1.0	U	1.0	U	5.0							
	Nov-98	1.0	U	1.0	U	6.0							
	May-99	1.0	U	1.0	U	13							
	Aug-99	1.0	U	1.0	U	13							
	Dec-99	1.0	U	1.0	U	11							
	Dec-00	1.0	U	1.0	U	7.0							
	Dec-01	1.0	U	1.0	U	1.0	U						
	Jun-04	1.0	U	0.8		6.3							
	Jun-09	1.0	U	1.0	U	2.0	J						

Table 3
Historical Groundwater Sample Results
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Shallow Zone Monitoring Wells				Deep Zone Monitoring Wells			
RSL or MCL*	1,1,1-TCA 200*	1,1-DCA 2.4	1,1-DCE 7.0*	RSL or MCL*	1,1,1-TCA 200*	1,1-DCA 2.4	1,1-DCE 7.0*
P-10A				P-10A			
<i>No associated shallow well</i>							
				Feb-89	26	13	851
				Jul-91	1.0 U	12	1740
				Aug-92	15	17	1310
				Nov-92	7.0	12	1310
				Feb-93	1.0 U	1.0 U	1320
				May-93	1.0 U	1.0 U	937
				Aug-93	1.0 U	1.0 U	1180
				Nov-93	1.0 U	17	1270
				Feb-94	9.0	18	1900
				May-94	7.0	16	1500
				Sep-94	1.0 U	1.0 U	1260
				Nov-94	1.0 U	13	1200
				Mar-95	1.0 U	1.0 U	960
				Jun-95	1.0 U	16	961
				Oct-95	1.0 U	17	1110
				Jan-96	4.0	13	1260
				Apr-96	3.0	10	770
				Jul-96	4.0	14	1100
				Oct-96	3.0	18	924
				Feb-97	1.0 U	11	707
				Jun-97	1.0 U	10	601
				Oct-97	1.0 U	12	800
				Feb-98	1.0 U	11	702
				Jun-98	1.0 U	11	667
				Nov-98	1.0 U	11	580
				May-99	1.0 U	17	857
				Aug-99	1.0 U	23	742
				Dec-99	1.0 U	23	1350
				Dec-00	6.0	18	992
				Dec-01	6.1	21	974
				Jun-04	1.3	23	1230
				Jun-09	1.0 U	21	770
				Sep-09	0.8 U	18	760
				Dec-09	0.8 U	21	900
				Mar-10	0.8 U	17	630
P-11				<i>No associated deep well</i>			
Feb-89	911	1.0 U	62				
Jul-91	1180	20	409				
Aug-92	139	11	26				
Nov-92	20	1.0 U	1.0 U				
Feb-93	80	8.0	19				
May-93	115	6.0	25				
Aug-93	148	17	29				
Nov-93	736	49	103				
Feb-94	520	21	204				
May-94	649	1.0 U	259				
Sep-94	665	25	271				
Nov-94	390	37	176				
Mar-95	394	13	118				
Jun-95	875	46	295				
Oct-95	420	44	172				
Jan-96	878	83	392				
Apr-96	185	8.0	62				
Jul-96	712	49	160				
Oct-96	9120	173	2260				
Feb-97	5850	65	1630				
Jun-97	1220	26	611				
Oct-97	1050	50	431				
Feb-98	118	5.0	53				
Jun-98	113	1.0 U	47				
Nov-98	10	1.0 U	1.0 U				
May-99	17	1.0 U	1.0 U				
Aug-99	27	5.0	6.0				
Dec-99	1.0 U	1.0 U	1.0 U				
Dec-00	1.0 U	1.0 U	1.0 U				
Dec-01	1.0 U	1.0 U	1.0 U				
Jun-04	1.0 U	1.1	1.0 U				
Jun-09	1.0 U	1.0 J	2.0 J				

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GE Puerto Rico Investment
Patillas, Puerto Rico

Shallow Zone Monitoring Wells								Deep Zone Monitoring Wells							
RSL or MCL*		1,1,1-TCA 200*		1,1-DCA 2.4		1,1-DCE 7.0*		RSL or MCL*		1,1,1-TCA 200*		1,1-DCA 2.4		1,1-DCE 7.0*	
P-12	Nov-89	2.0		1.0	U	30		No associated deep well							
	Jul-91	3.0		1.0	U	25									
	Aug-92	1.0	U	1.0	U	8.0									
	Nov-92	1.0	U	1.0	U	5.0									
	Feb-93	1.0	U	1.0	U	5.0									
	May-93	1.0	U	1.0	U	20									
	Aug-93	1.0	U	1.0	U	17									
	Nov-93	3.0		1.0	U	27									
	Feb-94	2.0		1.0	U	30									
	May-94	1.0	U	1.0	U	20									
	Sep-94	1.0	U	1.0	U	18									
	Nov-94	1.0	U	1.0	U	6.0									
	Mar-95	1.0	U	1.0	U	12									
	Jun-95	1.0	U	1.0	U	1.0	U								
	Oct-95	1.0	U	1.0	U	4.0									
	Jan-96	1.0	U	1.0	U	6.0									
Apr-96	1.0	U	1.0	U	5.0										
Jul-96	1.0	U	1.0	U	1.0	U									
P-13S	Jul-91	1.0	U	1.0	U	1.0	U	P-13D	Jul-91	1.0	U	1.0	U	1.0	U
	Aug-92	1.0	U	1.0	U	1.0	U		Aug-92	1.0	U	1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U		Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U		Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	1.0	U		May-93	1.0	U	1.0	U	1.0	U
	May-94	1.0	U	1.0	U	1.0	U		May-94	1.0	U	1.0	U	1.0	U
	Jun-95	1.0	U	1.0	U	1.0	U		Jun-95	1.0	U	1.0	U	1.0	U
	Jul-96	1.0	U	1.0	U	1.0	U		Jul-96	1.0	U	1.0	U	1.0	U
P-14S	Jul-91	1.0	U	1.0	U	1.0	U	P-14D	Jul-91	1.0	U	1.0	U	1.0	U
	Aug-92	1.0	U	1.0	U	1.0	U		Aug-92	1.0	U	1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U		Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U		Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	1.0	U		May-93	1.0	U	1.0	U	1.0	U
	May-94	1.0	U	1.0	U	1.0	U		May-94	1.0	U	1.0	U	1.0	U
	Jun-95	1.0	U	1.0	U	1.0	U		Jun-95	1.0	U	1.0	U	1.0	U
	Jul-96	1.0	U	1.0	U	1.0	U		Jul-96	1.0	U	1.0	U	1.0	U
P-15DD	No associated shallow well							P-15DD	Jun-04	0.5	J	2.1		104	
									Dec-05	0.8	U	2.0	J	96	
									May-06	0.8	U	2.0	J	99	
									Aug-06	0.8	U	2.0	J	86	
									Jun-09	0.8	U	2.0	J	61	
									Sep-09	0.8	U	2.0	J	68	
									Dec-09	0.8	U	2.0	J	65	
									Mar-10	0.8	U	2.0	J	52	
P-16S	Jun-04	0.4	J	5.3		13	No associated deep well								
	Dec-05	0.8	U	4.0	J	17									
	May-06	0.8	U	3.0	J	11									
	Aug-06	0.8	U	2.0	J	9.0									
	Jun-09	0.8	U	1.0	U	4.0									J
	Sep-09	0.8	U	1.0	U	1.0									U
	Dec-09	0.8	U	1.0	U	1.0									U
	Mar-10	0.8	U	1.0	U	1.0									U
P-17D	No associated shallow well							P-17D	Jun-04	1.0	U	2.1		163	
									Dec-05	0.8	U	2.0	J	120	
									May-06	0.8	U	2.0	J	130	
									Aug-06	0.8	U	2.0	J	110	
									Jun-09	0.8	U	2.0	J	75	
									Sep-09	0.8	U	2.0	J	100	
									Dec-09	0.8	U	2.0	J	91	
									Mar-10	0.8	U	2.0	J	72	

Table 3
Historical Groundwater Sample Results
GE Puerto Rico Investment
Patillas, Puerto Rico

Shallow Zone Monitoring Wells							Deep Zone Monitoring Wells						
		1,1,1-TCA		1,1-DCA		1,1-DCE			1,1,1-TCA		1,1-DCA		1,1-DCE
RSL or MCL*		200*		2.4		7.0*	RSL or MCL*		200*		2.4		7.0*
P-18S	Jun-04	1.6		2.3		64	P-18D	Jun-04	1.2		2.1		65
	Dec-05	1.0	J	1.0	J	26		Dec-05	1.0	J	1.0	J	38
	May-06	1.0	J	2.0	J	39		May-06	0.8	U	2.0	J	53
	Aug-06	0.9	J	1.0	U	20		Aug-06	1.0	J	2.0	J	53
	Jun-09	0.8	J	1.0		17		Jun-09	0.8	U	1.0	J	31
	Sep-09	1.0	J	1.0	J	20		Sep-09	0.8	J	1.0		37
	Dec-09	1.0	J	2.0	J	30		Dec-09	1.0	J	2.0	J	38
	Mar-10	1.0	J	2.0	J	27		Mar-10	0.8	U	2.0	J	33
P-19S	Jun-04	0.4	J	0.3	J	5.4	P-19D	Jun-04	1.1		0.7	J	15
	Dec-05	0.8	U	1.0	U	2.0		Dec-05	0.8	U	1.0	U	5.0
	May-06	0.8	U	1.0	U	1.0		May-06	0.8	U	1.0	U	7.0
	Aug-06	0.8	U	1.0	U	0.8		Aug-06	1.0	J	1.0	U	8.0
	Jun-09	0.8	U	1.0	U	0.8		Jun-09	0.8	U	1.0	U	2.0
	Sep-09	0.8	U	1.0	U	2.0		Sep-09	0.8	U	1.0	U	4.0
	Dec-09	0.8	U	1.0	U	3.0		Dec-09	0.8	U	1.0	U	6.0
	Mar-10	0.8	U	1.0	U	3.0		Mar-10	0.8	U	1.0	U	6.0
P-20S	May-06	0.8	U	1.0	U	0.8	P-20D	May-06	0.8	U	1.0	J	37
	Aug-06	0.8	U	1.0	U	0.8		Aug-06	0.8	U	1.0	J	44
	Jun-09	0.8	U	1.0	U	0.8		Jun-09	0.8	U	1.0	U	24
	Sep-09	0.8	U	1.0	U	7.0		Sep-09	0.8	U	1.0	U	28
	Dec-09	0.8	U	1.0	U	5.0		Dec-09	0.8	U	1.0	U	22
	Mar-10	0.8	U	1.0	U	8.0		Mar-10	0.8	U	1.0	U	22

Concentrations are reported in micrograms per liter (ug/L).

RSL - USEPA Regional Screening Level

*MCL - Maximum contaminant level

NA - Not available

1,1,1-TCA - 1,1,1-Trichloroethane

1,1-DCA - 1,1-Dichloroethane

1,1-DCE - 1,1-Dichloroethene

U - Non-Detect. The analyte was not detected above the indicated reporting limit

J - Estimated. The analyte was detected below the reporting limit.

Results that exceed the RSL or MCLs are boxed.

APPENDIX A

GROUNDWATER SAMPLING LOGS

GROUNDWATER SAMPLING LOG

Page 1 of 1

Client	GE	Well Number	P-7	Sampler	DTM onc
Site	Patillas	Total Well Depth	19.67	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	18.00		

Static Water Level (ft) 11.60Pumping Water Level (ft) 11.70Standing Water Column (ft) 6.30

Purge & Sampling Methods QED Bladder Pump

BLADDER PUMP SETTINGS

Refill	10
Discharge	5
Pressure	25

Time Purge Started 10:51 ASampling Date 3-16-10Sample Time 11:49 ATotal Volume Purged (gal) 8 ltrs = 2 gal

All measurements taken from:

±0.1

±3%

Top of Casing ☒

±10%

±10 %

Protective Casing ☐

±3%

±10mV

Ground Level ☐

<0.2'

75ml<rate<400ml

Time	pH	Cond. ($\mu\text{S}/\text{cm}$)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate (ml/min)	Comments
10:54A	6.43	0.439	636	2.42	33.00	169	11.70	150	
10:59A	6.34	0.381	36.10	1.88	32.04	141	11.70	"	2 ltrs
11:04A	6.33	0.381	18.20	1.86	31.94	137	11.70	"	
11:09A	6.33	0.381	13.50	2.25	31.90	136	11.70	"	
11:14A	6.33	0.379	9.50	2.21	31.93	135	11.70	"	
11:19A	6.33	0.379	8.50	2.43	31.93	133	11.70	"	4 ltrs
11:24A	6.33	0.381	6.10	2.41	31.87	135	11.70	"	4.5 ltrs
11:29A	6.33	0.374	6.20	2.53	31.82	136	11.70	"	5.0 ltrs
11:34A	6.33	0.379	6.20	2.52	31.73	134	11.70	"	5.6 ltrs
11:39A	6.33	0.380	4.10	2.72	31.73	137	11.70	"	6.1 ltrs
11:44A	6.33	0.379	4.10	2.52	31.72	136	11.70	"	7.0 ltrs.
11:49A	6.33	0.380	4.13	2.52	31.72	137	11.70	"	7.5 ltrs. = 2 gal

EB-01 @ 10:40 AM

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-7A	Sampler	DTM ONC
Site	Patillas	Total Well Depth	53.30	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	52.00		

Static Water Level (ft)

5
19.30

Pumping Water Level (ft)

19.40

Standing Water Column (ft)

33.95

Purge & Sampling Methods

QED Bladder Pump

BLADDER PUMP SETTINGS

Refill

10

Discharge

5

Pressure

30

Time Purge Started

1:20 PM

Sampling Date

3.16.10

Sample Time

2:45 PM

Total Volume Purged (gal)

All measurements taken from:

Top of Casing ☒Protective Casing ☐Ground Level ☐

±0.1

±3%

±10%

±10 %

±3%

±10mV

<0.2'

75ml<rate<400ml

Time	pH	Cond. (ms/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate (ml)	Comments
1:25P	6.46	0.419	15.90	2.97	30.54	96	19.44	150	3/4 LTR
1:30P	6.44	0.415	10.10	3.51	30.17	105	19.44	"	1 LTR
1:35P	6.44	0.413	6.90	2.88	29.98	110	19.44	"	2 LTR
1:40P	6.43	0.413	3.90	2.92	29.82	114	19.44	"	2.5 ltr.
1:45P	6.41	0.412	3.70	2.25	29.79	117	19.44	"	
1:50P	6.39	0.409	3.10	1.68	29.69	120	19.44	"	4 ltr.
1:55P	6.44	0.411	4.70	1.99	29.69	121	19.44	"	
2:00P	6.40	0.410	4.50	1.98	29.66	121	19.44	"	5 ltr.
2:05P	6.40	0.410	5.00	1.61	29.60	121	19.44	"	
2:10P	6.40	0.410	4.40	1.70	29.69	126	19.44	"	
2:15P	6.40	0.410	5.50	1.59	29.66	128	19.44	"	7 ltr.
2:20P	6.40	0.403	6.20	1.39	29.65	129	19.44	"	water clear : 8.5 ltr

4/21/11
 53.30
 - 19.35
 33.95

[illegible]

GROUNDWATER SAMPLING LOG

Page 1 of 1

Client	GE	Well Number	P10-A	Sampler	DTM ONC
Site	Patillas	Total Well Depth	50.83	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	49.00		

Static Water Level (ft) 20.50Pumping Water Level (ft) 20.65Standing Water Column (ft) 30.33

Purge & Sampling Methods QED Bladder Pump

BLADDER PUMP SETTINGS

Refill	10
Discharge	5
Pressure	25

Time Purge Started 3:16PMSampling Date 3.16.10Sample Time 4:06PTotal Volume Purged (gal) 7.1tr= 1.85 galAll measurements taken from: ☒ Top of Casing ☐ Protective Casing ☐ Ground Level

±0.1

±3%

±10%

±10 %

±3%

±10mV

<0.2'

75ml<rate<400ml

Time	pH	Cond. <i>ms/cm</i>	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate (<i>m/min</i>)	Comments
3:21P	10.70	0.453	6.90	4.45	31.21	-56	20.70	150	5x30ml/min = 150 ml/min
3:26P	10.44	0.397	4.50	4.02	30.84	-52	20.70	"	
3:31P	7.17	0.526	0.00	1.74	30.76	70	20.70	"	2 Hr.
3:36P	6.87	0.539	0.20	1.43	30.78	93	20.80	"	
3:41P	6.80	0.539	0.00	1.38	30.64	99	20.80	"	
3:46P	6.77	0.532	0.70	1.56	30.61	103	20.80	"	4.51tr.
3:51P	6.76	0.532	0.00	1.19	30.49	105	20.80	"	
3:56P	6.75	0.537	0.30	1.10	30.47	107	20.80	"	
4:01	6.75	0.540	1.10	0.91	30.23	108	20.80	"	
4:06	6.74	0.539	0.10	1.15	30.19	110	20.80	"	7.1tr ≈ 1.85gal

$$\begin{array}{r} 50.83 \\ - 20.50 \\ \hline 30.33 \end{array}$$

GROUNDWATER SAMPLING LOG

Page 1 of 1

Client	GE	Well Number	P10-A	Sampler	DTM ONC
Site	Patillas	Total Well Depth	50.83	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	49.00		

Static Water Level (ft) 20.50

Pumping Water Level (ft) 20.65

Standing Water Column (ft) 30.33

Purge & Sampling Methods QED Bladder Pump

BLADDER PUMP SETTINGS

Refill	10
Discharge	5
Pressure	25

Time Purge Started 3:16PM

Sampling Date 3.16.10

Sample Time 4:06P

Total Volume Purged (gal) 7.1tr
= 1.85 gal

All measurements taken from:
 ±0.1 ±3% ±10% ±10% ☒ Top of Casing ☐ Protective Casing ☐ Ground Level

±3% ±10mV <0.2' 75ml<rate<400ml

Time	pH	Cond. ms/cm	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate (ml/min)	Comments
3:21P	10.70	0.453	6.90	4.45	31.21	-56	20.70	150	5x30ml/min = 150 ml/min
3:26P	10.44	0.397	4.50	4.02	30.84	-52	20.70	"	
3:31P	7.17	0.526	0.00	1.74	30.76	70	20.70	"	2 Hr.
3:36P	6.87	0.539	0.20	1.43	30.78	93	20.80	"	
3:41P	6.80	0.539	0.00	1.38	30.64	99	20.80	"	
3:46P	6.77	0.532	0.70	1.56	30.61	103	20.80	"	4.51tr.
3:51P	6.76	0.532	0.00	1.19	30.49	105	20.80	"	
3:56P	6.75	0.537	0.30	1.10	30.47	107	20.80	"	
4:01	6.75	0.540	1.10	0.91	30.23	108	20.80	"	
4:06	6.74	0.539	0.10	1.15	30.19	110	20.80	"	7.1tr ≈ 1.85gal

$$\begin{array}{r} 50.83 \\ - 20.50 \\ \hline 30.33 \end{array}$$

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-16 S	Sampler	DTM ONC
Site	Patillas	Total Well Depth	28.04	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	27.00		

Static Water Level (ft) 20.55
Pumping Water Level (ft) 20.40
Standing Water Column (ft) 7.49
Purge & Sampling Methods QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	25

Time Purge Started 10:00 AM
Sampling Date 3.17.10
Sample Time 10:45 A
Total Volume Purged (gal) 3.20 ltr = 1 gal

All measurements taken from: Top of Casing ☒ Protective Casing ☐ Ground Level ☐
±0.1 ±3% ±10% ±10 % ±3% ±10mV <0.2' 75ml<rate<400ml

Time	pH	Cond. ($\mu\text{S}/\text{cm}$)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate (ml/min)	Comments
10:05A	6.42	0.551	172	3.62	30.60	38	20.40	150	30ml x 5 min = 150 ml/min
10:10A	6.37	0.542	117	2.92	30.19	45	21.70	"	1 ltr
10:15A	6.35	0.540	61.60	2.42	30.32	57	22.60	"	1.5 ltr
10:20A	6.35	0.540	47.00	2.05	30.21	62	23.15	"	1.80 litres.
10:25A	6.37	0.537	31.40	2.13	30.17	66	23.70	"	2.00 ltr.
10:30A	6.38	0.537	28.70	2.29	30.30	66	23.80	"	2.5 ltr
10:35A	6.39	0.535	21.50	2.31	30.30	65	24.00	"	3.0 ltr
10:40A	6.39	0.535	21.40	2.30	30.32	65	24.10	"	3.15 ltr
10:45A	6.40	0.535	21.40	2.30	30.32	65	24.10	"	3.20 ltr \approx 1 gal

DUP-01 IS FROM P-16S LABELED AS TAKEN AT 10:00 AM

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-17D	Sampler	DTM onc
Site	Patillas	Total Well Depth	63.74	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	62.0		

Static Water Level (ft) 14.60

Pumping Water Level (ft) 14.80

Standing Water Column (ft) 39.14

Purge & Sampling Methods QED Bladder Pump

BLADDER PUMP SETTINGS

Refill 10

Discharge 5

Pressure 45

Time Purge Started 11:28

Sampling Date 3.17.10

Sample Time 12:13P

Total Volume Purged (gal) 6 Ltr

= 1.6 gal

All measurements taken from:

±0.1

±3%

Top of Casing ☒

±10%

±10 %

Protective Casing ☐

±3%

±10mV

Ground Level ☐

<0.2'

75ml<rate<400ml

Time	pH	Cond. (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate (mL)	Comments
11:33A	6.91	0.580	12.2	4.44	28.82	73	14.80	150ml	5 x 30 = 150 mL/min
11:38A	6.91	0.582	9.1	4.91	28.74	72	14.80	"	2 Ltr
11:43A	6.91	0.581	7.9	4.75	28.72	73	14.80	"	2.2 Ltr
11:48A	6.91	0.582	7.3	4.36	28.72	73	14.80	"	2.5 Ltr
11:53A	6.90	0.582	7.4	2.06	28.73	75	14.80	"	3 Ltr
11:58A	6.91	0.583	4.9	2.24	29.00	75	14.80	"	3.1 Ltr
12:03P	6.91	0.583	5.0	2.21	29.03	75	14.80	"	4.0 Ltr
12:08P	6.91	0.582	4.9	2.20	29.03	75	14.80	"	5.0 Ltr
12:13P	6.91	0.582	4.6	1.90	29.03	69	14.80	"	6 Ltr ≈ 1.6 gal
									150ml/min

51.74
- 14.60
39.14

Client	GE	Well Number	P-18D	Sampler	DTM ONC
Site	Patillas	Total Well Depth	48.05	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	47.00		

Static Water Level (ft) 16.25

Pumping Water Level (ft) 16.30

Standing Water Column (ft) 31.80

Purge & Sampling Methods QED Bladder Pump

BLADDER PUMP SETTINGS

Refill	10
--------	----

Discharge	5
------------------	----------


Pressure 25

Time Purge Started 2:33 P

Sampling Date 3-17-10

Sample Time 3:03 PM

Total Volume Purged (gal)	477r =
---------------------------	--------

All measurements taken from: Top of Casing 

Measurement	±0.1	±3%	±10%	±10 %
Top of Casing				
Bottom of Casing				
Top of Drilling				
Bottom of Drilling				
Top of Well				
Bottom of Well				

Protective Casing ☐

Ground Level ☐

[illegible]

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-18S	Sampler	DTM ONC
Site	Patillas	Total Well Depth	19.05'	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	18.00		

Static Water Level (ft) 16.00

Pumping Water Level (ft) 16.40

Standing Water Column (ft) 3.05'

Purge & Sampling Methods QED Bladder Pump

BLADDER PUMP SETTINGS

Refill 10

Discharge 5

Pressure 20

Time Purge Started 1:25 PM

Sampling Date 3.17.10

Sample Time 2:10 PM

Total Volume Purged (gal) 41 tr

≈ 1.05 gal

All measurements taken from:
±0.1 ±3% ±10% ±10%Top of Casing ☒Protective Casing ☐Ground Level ☐
<0.2' 75ml<rate<400ml

Time	pH	Cond. ms/cm	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate (ml/min)	Comments
1:30 pm	6.45	0.465	42.9	3.19	32.43	3	16.40	100	5x25/ml/min
1:35 pm	6.39	0.464	16.7	2.70	31.39	17	16.40	"	1 Ltr
1:40 pm	6.39	0.463	6.6	2.40	30.93	21	16.40	"	1.5 Ltr
1:45 pm	6.39	0.463	3.1	2.03	30.68	19	16.40	"	2.0 Ltr
1:50 pm	6.39	0.463	2.7	1.67	30.51	17	16.40	"	2.0 Ltr
1:55 pm	6.39	0.458	2.7	1.50	30.25	17	16.40	"	3.0 Ltr
2:00 pm	6.39	0.458	1.1	1.07	30.05	17	16.40	"	3.3 Ltr
2:05 pm	6.39	0.459	0.7	0.95	29.81	17	16.40	"	3.5 Ltr
2:10 pm	6.40	0.459	0.0	0.90	29.81	17	16.40	"	4.0 Ltr ≈ 1.05 gal
2:15 pm									
2:20 pm									
									100ml/min

Og'
Og'

$$\begin{array}{r} 19.05 \\ -16.00 \\ \hline 3.05 \end{array}$$

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-19D	Sampler	DPM One
Site	Patillas	Total Well Depth	38.23'	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	37.23'		

Static Water Level (ft) 14.70

Pumping Water Level (ft) 14.70

Standing Water Column (ft) 23.53

Purge & Sampling Methods QED Bladder Pump

BLADDER PUMP SETTINGS

Refill	10
Discharge	5
Pressure	25

Time Purge Started 10:00 AM

Sampling Date 3.18.10

Sample Time 10:50 AM

Total Volume Purged (gal) 6.31 tr
= 1.75 gals

All measurements taken from: Top of Casing ☒ Protective Casing ☐ Ground Level ☐
 ±0.1 ±3% ±10% ±10% ±3% ±10mV <0.2' 75ml<rate<400ml

Time	pH	Cond. (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate (ml/min)	Comments
10:05A	6.54	0.474	4.4	3.90	29.05	-133	14.70	150	30 ML / min
10:10A	6.52	0.476	0.0	4.80	28.95	-125	14.70	"	1/2 Ltr
10:15A	6.52	0.476	0.0	3.66	29.30	-100	14.70	"	1.2 Ltr
10:20A	6.51	0.480	0.0	4.22	29.46	-85	14.70	"	2 Ltr
10:25A	6.51	0.479	0.0	3.80	29.49	-85	14.70	"	2.9 Ltr
10:30A	6.50	0.479	0.0	2.91	29.50	-74	14.70	"	3.5 Ltr
10:35A	6.50	0.480	0.0	3.80	29.51	-70	14.70	"	4.4 Ltr
10:40A	6.50	0.480	0.0	3.80	29.51	-52	14.70	"	5 Ltr
10:45A	6.50	0.480	0.0	3.29	30.54	-42	14.70	"	6 Ltr
10:50A	6.50	0.480	0.0	3.57	30.66	-35	14.70	"	6.3 Ltr ≈ 1.75 gals
✓									

MS/MSD FROM P-19D AT 10:54AM

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-195	Sampler	DTM onc
Site	Patillas	Total Well Depth	18.10'	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	17.10'		

Static Water Level (ft) 13.80Pumping Water Level (ft) 13.90Standing Water Column (ft) 4.30

Purge & Sampling Methods QED Bladder Pump

BLADDER PUMP SETTINGS

Refill 10Discharge 5Pressure 20Time Purge Started 8:40 ASampling Date 3.18.10Sample Time 9:35amTotal Volume Purged (gal) 5.5 ltr.=1.45 gal

All measurements taken from:
 ±0.1 ±3% ±10% ±10% ±3% ±10mV <0.2' 75ml<rate<400ml

Time	pH	Cond. <u>MS/cm</u>	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water <u>ft</u>	Flow Rate <u>(ML/min)</u>	Comments
8:45a	6.47	0.445	120	3.16	28.79	173	13.90	125	125 ML/min
8:50a	6.41	0.441	61.5	3.61	28.80	388 167	13.90	"	1/2 Ltr
8:55a	6.40	0.439	52.5	4.55	28.65	167	13.90	"	1 Ltr
9:00	6.40	0.439	37.0	4.29	28.65	165	13.90	"	1.9 Ltr
9:05a	6.39	0.439	29.0	4.29	28.65	165	13.90	"	2 Ltr
9:10a	6.37	0.439	18.5	4.26	28.67	164	13.90	"	3 Ltr
9:15a	6.32	0.438	13.8	4.04	28.69	164	13.90	"	3.5 Ltr
9:20a	6.38	0.439	11.6	2.63	28.70	164	13.90	"	4.0 Ltr
9:25a	6.38	0.439	7.8	2.65	28.73	164	13.90	"	4.4 Ltr
9:30a	6.38	0.439	6.0	2.66	28.74	164	13.90	"	5. Ltr
9:35a	6.38	0.439	4.5	2.68	28.78	164	13.90	"	5.4 Ltr = 1.5 gal.

DUP-02 AT 9:00AM FROM P-195 @ 9:35am

7
18.10
-13.80
4.30

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-20D	Sampler	DTM ONC
Site	Patillas	Total Well Depth	52.98'	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	51.98'		

Static Water Level (ft)

15.30'

Pumping Water Level (ft)

15.30'

Standing Water Column (ft)

37.68'

Purge & Sampling Methods

QED Bladder Pump

BLADDER PUMP SETTINGS

Refill	10
Discharge	5
Pressure	38

Time Purge Started

12:37 P

Sampling Date

3.18.10

Sample Time

1:22 PM

Total Volume Purged (gal)

5.81 tr

= 1.53 gal

All measurements taken from:

±0.1

±3%

Top of Casing ☒

±10%

±10 %

Protective Casing ☐

±10mV

Ground Level ☐

<0.2'

75ml<rate<400ml

Time	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate (ml/min)	Comments
12:42P	6.73	0.459	95.2	2.13	30.35	93	15.30	180 150	30 / ml / min 1/2 in
12:47P	6.71	0.461	43.6	2.60	30.07	90	15.30	"	1.1 Ltr
12:52P	6.70	0.475	37.6	2.99	29.78	90	15.30	"	2 Ltr
12:57P	6.70	0.475	32.0	3.54	29.75	92	15.30	"	2.8 Ltr
1:02P	6.70	0.476	30.0	3.60	29.53	92	15.30	"	3.4 Ltr
1:07P	6.70	0.476	29.9	3.60	29.46	93	15.30	"	4 Ltr
1:12P	6.70	0.476	23.4	3.32	29.29	93	15.30	"	4.7 Ltr
1:17P	6.70	0.477	20.9	2.10	29.29	94	15.30	"	5.3 Ltr
1:22P	6.70	0.479	19.9	2.16	29.52	96	15.30	"	5.81 tr = 1.53 gal
									150ml x 39 min = 1.54 gal.

150 ml/min

$\frac{52.98}{15.30}$
 $= 37.68$

Client	GE	Well Number	P-20 S	Sampler	DTM DNC
Site	Patillas	Total Well Depth	24.83'	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	23.83'		

Static Water Level (ft) 15.60

Pumping Water Level (ft) 15.60

Standing Water Column (ft) 9.23

Purge & Sampling Methods QED Bladder Pump

BLADDER PUMP SETTINGS

Refill	10
--------	----

Discharge

Pressure	20
----------	----

Time Purge Started 11:40

Sampling Date 3-18-10

Sample Time 12:15 p

Total Volume Purged (gal) 4.51 fr

$$= 1.20 \text{ gal}$$

All measurements taken from:

 ± 0.1 $\pm 3\%$ Top of Casing $\pm 10\%$

±10 %

Protective Casing ☐ $\pm 3\%$

+10mV

Ground Level ☐ ≤ 0.2

75ml<rate<400ml

[illegible]

PATILLAS GE
QUARTERLY GROUNDWATER SAMPLING
MARCH 2010

GROUNDWATER LEVELS

WELL ID	TOC (FT)	GL(FT)	COMMENTS
P-1	15.20	13.70	
P-1A	16.00	14.40	
P-2	13.45	11.40	
P-2A	19.00	17.40	
P-3	11.00	9.70	
P-3A	19.40	17.70	
P-4	12.10	10.10	
P-5	15.40	13.50	
P-5A	24.00	22.30	
P-6	11.45	10.70	
P-7	11.60	9.80	
P-7A	19.30	17.60	
P-8	11.00	8.20	
P-9	12.10	10.00	
P-10A	20.50	18.90	
P-11	9.10	7.30	
P-15DD	19.30	17.20	
P-16S	20.55	18.50	
P-17D	14.60	12.10	
P-18S	16.00	13.50	
P-18D	16.25	13.85	
P-19S	13.80	11.15	
P-20S	15.60	12.80	
P-20D	15.30	12.90	

TOC: TOP OF CASING, GL: GROUND LEVEL

APPENDIX B

LABORATORY ANALYTICAL DATA

(INCLUDED ON CD)

Daliz Estados Santalíz

Licensed Chemist

To Whom It May Concern:

I, Daliz M. Estados Santaliz, in my capacity as Puerto Rico Certified Chemist, hereby certify the attached Analytical Results from Project Name GE Patillas, Puerto Rico, and Laboratory ID Numbers:

5932500
5932501
5932502
5932503
5932504
5932505
5932506
5932507
5932508
5932509

5932510
5932511
5932512
5932513
5932514
5932515
5932516
5932517
5932518
5932519



PO Box 727
Dorado, PR 00646-0727

Analysis Report



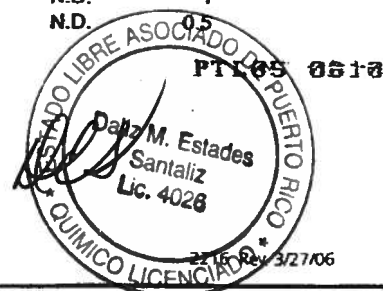
Page 1 of 11

MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL05

Report Date: 3/31/2010 17:16
Submit Date: 3/19/2010 9:15

Analysis Name	Units	5932500	MDL	5932501	MDL	5932502	MDL
		EB-01		P-7		P-7A	
		Result		Result		Result	
Acetone	ug/l	14 J	8	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	3 J	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1	7	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	N.D.	0.8	22	0.8	1 J	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Analysis Report



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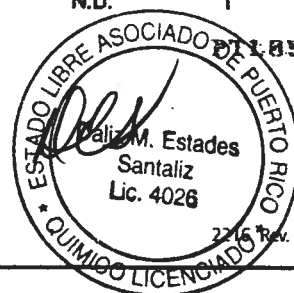
MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL05

Report Date: 3/31/2010 17:16
Submit Date: 3/19/2010 9:15

4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	7	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5932503		5932504		5932505	
		P-10A	MDL	TB-01	MDL	EB-02	MDL
		Result		Result		Result	
Acetone	ug/l	N.D.	6	N.D.	6	13 J	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	1 J	0.8	N.D.	0.8	3 J	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



07105 0811

2216 Rev. 3/27/06

Analysis Report



Page 3 of 11

MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL05

Report Date: 3/31/2010 17:16
Submit Date: 3/19/2010 9:15

Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	17	1	N.D.	1	N.D.	1
1,2-Dichloroethane	ug/l	1 J	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	630	8	N.D.	0.8	N.D.	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	2 J	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5932506	MDL	5932507	MDL	5932508	MDL
		P-15DD Result		P-16S Result		DUP-01 Result	

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SDG: PTL05

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Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	2 J	1	N.D.	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	52	0.8	N.D.	0.8	N.D.	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1

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Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5932509		5932510		5932511	
		P-17D	MDL	P-18S	MDL	P-18D	MDL
		Result		Result		Result	
Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1

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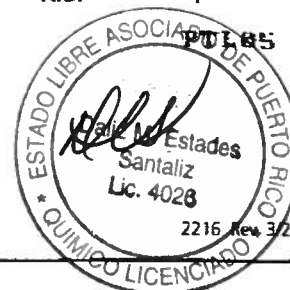
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Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	2 J	1	2 J	1	2 J	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	72	0.8	27	0.8	33	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	1 J	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5932512		5932513		5932514	
		EB-02	MDL	DUP-02	MDL	P-19S	MDL
		Result		Result		Result	
Acetone	ug/l	14 J	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1

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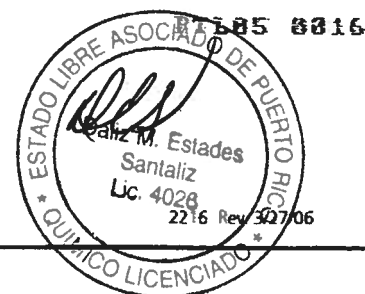




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Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	2 J	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethane	ug/l	N.D.	0.8	3 J	0.8	3 J	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8



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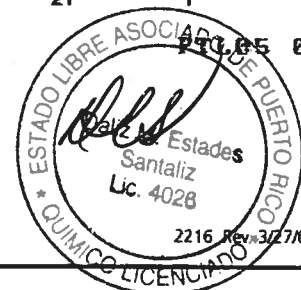
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Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5932515		5932516		5932517	
		P-19D		P-19D		P-19D	
		Unspiked	MDL	Matrix Spike	MDL	Matrix Spike	MDL
		Result		Result		Dup	
Acetone	ug/l	N.D.	6	140	6	140	6
Benzene	ug/l	N.D.	0.5	19	0.5	19	0.5
Bromobenzene	ug/l	N.D.	1	19	1	21	1
Bromochloromethane	ug/l	N.D.	1	19	1	20	1
Bromodichloromethane	ug/l	N.D.	1	19	1	19	1
Bromoform	ug/l	N.D.	1	16	1	16	1
Bromomethane	ug/l	N.D.	1	15	1	15	1
2-Butanone	ug/l	N.D.	3	130	3	120	3
n-Butylbenzene	ug/l	N.D.	1	21	1	21	1
sec-Butylbenzene	ug/l	N.D.	1	20	1	22	1
tert-Butylbenzene	ug/l	N.D.	1	20	1	21	1
Carbon Tetrachloride	ug/l	N.D.	1	20	1	21	1
Chlorobenzene	ug/l	N.D.	0.8	19	0.8	20	0.8
Chloroethane	ug/l	N.D.	1	13	1	14	1
Chloroform	ug/l	1 J	0.8	21	0.8	21	0.8
Chloromethane	ug/l	N.D.	1	16	1	16	1
2-Chlorotoluene	ug/l	N.D.	1	20	1	21	1
4-Chlorotoluene	ug/l	N.D.	1	20	1	21	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	18	2	19	2
Dibromochloromethane	ug/l	N.D.	1	17	1	18	1
1,2-Dibromoethane	ug/l	N.D.	1	17	1	19	1
Dibromomethane	ug/l	N.D.	1	19	1	19	1
1,2-Dichlorobenzene	ug/l	N.D.	1	19	1	20	1
1,3-Dichlorobenzene	ug/l	N.D.	1	20	1	21	1
1,4-Dichlorobenzene	ug/l	N.D.	1	19	1	20	1
Dichlorodifluoromethane	ug/l	N.D.	2	15	2	16	2
1,1-Dichloroethane	ug/l	N.D.	1	21	1	21	1

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PTL05 8817

2216 Rev 3/27/06

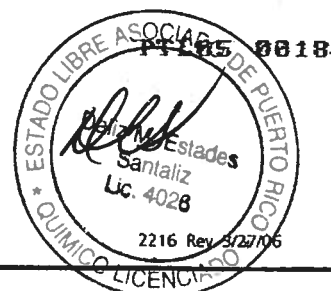


MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL05

Report Date: 3/31/2010 17:16
Submit Date: 3/19/2010 9:15

1,2-Dichloroethane	ug/l	N.D.	1	19	1	19	1
1,1-Dichloroethene	ug/l	6	0.8	29	0.8	30	0.8
cis-1,2-Dichloroethane	ug/l	N.D.	0.8	20	0.8	21	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	21	0.8	21	0.8
1,2-Dichloropropane	ug/l	N.D.	1	19	1	19	1
1,3-Dichloropropane	ug/l	N.D.	1	18	1	19	1
2,2-Dichloropropane	ug/l	N.D.	1	20	1	21	1
1,1-Dichloropropene	ug/l	N.D.	1	20	1	20	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	17	1	17	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	18	1	18	1
Ethylbenzene	ug/l	N.D.	0.8	20	0.8	21	0.8
Hexachlorobutadiene	ug/l	N.D.	2	21	2	23	2
Isopropylbenzene	ug/l	N.D.	1	20	1	21	1
p-Isopropyltoluene	ug/l	N.D.	1	20	1	21	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	18	0.5	19	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	73	3	73	3
Methylene Chloride	ug/l	N.D.	2	20	2	21	2
Naphthalene	ug/l	N.D.	1	19	1	21	1
n-Propylbenzene	ug/l	N.D.	1	21	1	21	1
Styrene	ug/l	N.D.	1	19	1	20	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	18	1	19	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	19	1	20	1
Tetrachloroethene	ug/l	N.D.	0.8	20	0.8	20	0.8
Toluene	ug/l	N.D.	0.7	19	0.7	20	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	19	1	20	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	19	1	21	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	21	0.8	21	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	19	0.8	19	0.8
Trichloroethene	ug/l	N.D.	1	20	1	20	1
Trichlorofluoromethane	ug/l	N.D.	2	20	2	20	2
1,2,3-Trichloropropane	ug/l	N.D.	1	19	1	19	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	21	1	22	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	20	1	21	1
Vinyl Chloride	ug/l	N.D.	1	19	1	19	1
m+p-Xylene	ug/l	N.D.	0.8	38	0.8	40	0.8
o-Xylene	ug/l	N.D.	0.8	20	0.8	20	0.8

Analysis Name	Units	5932518		5932519	
		P-20S	P-20D	P-20S	P-20D
		Result	MDL	Result	MDL
Acetone	ug/l	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1





MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL05

Report Date: 3/31/2010 17:16
Submit Date: 3/19/2010 9:15

Bromomethane	ug/l	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1
Chloroform	ug/l	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	8	0.8	22	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1

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Project: GE Patillas Puerto Rico
SDG: PTL05

Report Date: 3/31/2010 17:16
Submit Date: 3/19/2010 9:15

1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8



PTL05 0020



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Type I Data Package

Prepared for:

MWH Americas, Inc.
P.O. Box 6610
Broomfield CO 80021

Project: GE Patillas Puerto Rico
Water Samples
Collected on 03/16/10-03/18/10

SDG# PTL05

GROUP	SAMPLE NUMBERS
1186825	5932500-5932519

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-08A-TX

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by:

Date

4/8/10

Any questions or concerns you might have regarding this data package should be directed to your client representative, Natalie Luciano, at Ext. 1881.

Total Number of Pages 309

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d. Standards Data	180
e. Raw QC Data	269

**Sample Reference List for SDG Number PTL05
with a Data Package Type of I
12136 - MWH Americas, Inc.
Project: GE Patillas Puerto Rico**

Lab Sample Number	Lab Sample Code	Client Sample Description
5932500	PATE1	EB-01 Grab Water 231038
5932501	PATP7	P-7 Grab Water 231038
5932502	PAT7A	P-7A Grab Water 231038
5932503	PAT10	P-10A Grab Water 231038
5932504	PATT1	TB-01 Water 231038
5932505	PATE2	EB-02 Grab Water 231038
5932506	PA15D	P-15DD Grab Water 231038
5932507	PA16S	P-16S Grab Water 231038
5932508	PATD1	DUP-01 Grab Water 231038
5932509	PA17D	P-17D Grab Water 231038
5932510	PA18S	P-18S Grab Water 231070
5932511	PA18D	P-18D Grab Water 231070
5932512	PAEB2	EB-02 Grab Water 231070
5932513	PATD2	DUP-02 Grab Water 231070
5932514	PA19S	P-19S Grab Water 231070
5932515	PA19D	P-19D Unspiked Grab Water 231070
5932516	PA19D	P-19D Matrix Spike Grab Water 231070
5932517	PA19D	P-19D Matrix Spike Dup Grab Water 231070
5932518	PA20S	P-20S Grab Water 231070
5932519	PA20D	P-20D Grab Water 231070

Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only

Acct. # 12136 Group # 18685 Sample # 5932500-19 **COC #** 231038

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: <u>MWH Americas, Inc.</u> Acct. #: _____ Project Name: <u>GE Patillas</u> PWSID #: _____ Project Manager: <u>Bradley R. Toth</u> P.O. #: _____ Sampler: <u>Omar Negrón</u> Quote #: _____ Name of state where samples were collected: <u>P.R.</u>		5 Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other		6 Remarks																
2		4		3																
EB-01	3-16-10 10:40A	X	X	X																
P-7	3-16-10 11:49A	X	X	X																
P-7A	3-16-10 2:45P	X	X	X																
P-10A	3-16-10 4:06P	X	X	X																
TB-01	—	—	—	—																
EB-02	3-17-10 8:00A	X	X	X																
P-15DD	3-17-10 9:14A	X	X	X																
P-16S	3-17-10 10:45A	X	X	X																
DUP-01	3-17-10 10:00A	X	X	X																
P-17D	3-17-10 12:13P	X	X	X																
7 Turnaround Time Requested (TAT) (please circle): Normal Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: _____ Rush results requested by (please circle): Phone Fax E-mail Phone #: _____ Fax #: _____ E-mail address: _____																				
8 Data Package Options (please circle if required) <table border="1"> <tr> <td>Type I (Validation/NJ Reg)</td> <td>TX TRRP-13</td> <td>SDG Complete?</td> </tr> <tr> <td>Type II (Type I)</td> <td>MA MCP CT RCP</td> <td>Yes No</td> </tr> <tr> <td>Type III (Reduced NJ)</td> <td>Site-specific QC (MS/MSD/Dup)?</td> <td>Yes No</td> </tr> <tr> <td>Type IV (SLP SOW)</td> <td>Internal COC Required?</td> <td>Yes / No</td> </tr> <tr> <td>Type VI (Raw Data Only)</td> <td></td> <td></td> </tr> </table>						Type I (Validation/NJ Reg)	TX TRRP-13	SDG Complete?	Type II (Type I)	MA MCP CT RCP	Yes No	Type III (Reduced NJ)	Site-specific QC (MS/MSD/Dup)?	Yes No	Type IV (SLP SOW)	Internal COC Required?	Yes / No	Type VI (Raw Data Only)		
Type I (Validation/NJ Reg)	TX TRRP-13	SDG Complete?																		
Type II (Type I)	MA MCP CT RCP	Yes No																		
Type III (Reduced NJ)	Site-specific QC (MS/MSD/Dup)?	Yes No																		
Type IV (SLP SOW)	Internal COC Required?	Yes / No																		
Type VI (Raw Data Only)																				
9 Relinquished by: _____ Date: <u>3/10/10</u> Time: <u>1:00</u> Relinquished by: _____ Date: <u>3/18/10</u> Time: <u>3:00pm</u> Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____																				

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 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Analysis Request/ Environmental Services Chain of Custody



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Acct. # 12136 Group # 118685 Sample # 5932500-19 **COC #** 231070

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: <u>mwh Americas, inc.</u> Acct. #: _____ Project Name: <u>GE Patillas</u> PWSID #: _____ Project Manager: <u>Bradly R. Tish</u> P.O. #: _____ Sampler: <u>Omara Negron</u> Quote #: _____ Name of state where samples were collected: <u>P.R.</u>		5 Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other	
2		6	
3		4	
7 Turnaround Time Requested (TAT) (please circle): Normal Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: _____ Rush results requested by (please circle): Phone Fax E-mail Phone #: _____ Fax #: _____ E-mail address: _____		8 Data Package Options (please circle if required) Type I (Validation/NJ Reg) TX TRRP-13 SDG Complete? Yes No Type II (TAR II) MA MCP CT RCP Type III (Reduced NJ) Site-specific QC (MSMSD/Dup)? Yes No Type IV (CLP SOW) Internal QC (sample and blank/replicate values) Type VI (Raw Data Only) Internal COC Required? Yes / No	
9		9	

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Environmental Sample Administration Receipt Documentation Log

Client/Project: MWH Americas Inc

Shipping Container Sealed: (YES) NO

Date of Receipt: 3/19/10

Custody Seal Present * : (YES) NO

Time of Receipt: 915

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 50-1

Unpacker Emp. No.: 2316

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	9179	3.6°C	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody. 0

Paperwork Discrepancy/Unpacking Problems:

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
<u>Harry Kuhn</u>	<u>3/19/10</u>	<u>1405</u>	Unpacking <u>Storage</u>
<u>Mary Beth Reed</u>	<u>3/19/10</u>	<u>1409</u>	Place in Storage or <u>(Entry)</u>
			Entry
			Entry

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01163 GC/MS VOA Water Prep

An undiluted aliquot of the water sample or a dilution of the sample is purged with an inert gas and the volatiles are collected on an adsorbent trap that is subsequently desorbed onto a gas chromatographic column.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 5030B, December 1996.

00310 8260B water special scan**06886 Appendix IX by 8260 - water**

The water sample is purged and the volatile compounds are collected on a sorbent trap that is subsequently desorbed onto the GC/MS system for chromatographic and mass spectral analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8260B, December 1996

PTL05 8885



ANALYTICAL RESULTS

Prepared for:

MWH Americas, Inc.
P.O. Box 6610
Broomfield CO 80021
303-385-5500

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425
March 31, 2010

SAMPLE GROUP

The sample group for this submittal is 1186825. Samples arrived at the laboratory on Friday, Mar 19 2010.
The project for this group is GE Patillas Puerto Rico.
The PO# for this sample group is 1006833.010101.

<u>Sample No.</u>	<u>Collected</u>	<u>Client Description</u>
5932500	3/16/2010 10:40	EB-01 Grab Water 231038 GE Patillas Puerto Rico
5932501	3/16/2010 11:49	P-7 Grab Water 231038 GE Patillas Puerto Rico
5932502	3/16/2010 14:45	P-7A Grab Water 231038 GE Patillas Puerto Rico
5932503	3/16/2010 16:06	P-10A Grab Water 231038 GE Patillas Puerto Rico
5932504	3/16/2010	TB-01 Water 231038 GE Patillas Puerto Rico
5932505	3/17/2010 8:00	EB-02 Grab Water 231038 GE Patillas Puerto Rico
5932506	3/17/2010 9:14	P-15DD Grab Water 231038 GE Patillas Puerto Rico
5932507	3/17/2010 10:45	P-16S Grab Water 231038 GE Patillas Puerto Rico
5932508	3/17/2010 10:00	DUP-01 Grab Water 231038 GE Patillas Puerto Rico

PTL05 0006



ANALYTICAL RESULTS

Prepared for:

MWH Americas, Inc.
P.O. Box 6610
Broomfield CO 80021
303-385-5500

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425
March 31, 2010

5932509	3/17/2010 12:13	P-17D Grab Water 231038
5932510	3/17/2010 14:10	GE Patillas Puerto Rico P-18S Grab Water 231070
5932511	3/17/2010 15:03	GE Patillas Puerto Rico P-18D Grab Water 231070
5932512	3/18/2010 8:30	GE Patillas Puerto Rico EB-02 Grab Water 231070
5932513	3/18/2010 9:00	GE Patillas Puerto Rico DUP-02 Grab Water 231070
5932514	3/18/2010 9:35	GE Patillas Puerto Rico P-19S Grab Water 231070
5932515	3/18/2010 10:50	GE Patillas Puerto Rico P-19D Unspiked Grab Water 231070
5932516	3/18/2010 10:54	GE Patillas Puerto Rico P-19D Matrix Spike Grab Water 231070
5932517	3/18/2010 10:54	GE Patillas Puerto Rico P-19D Matrix Spike Dup Grab Water 231070
5932518	3/18/2010 12:15	GE Patillas Puerto Rico P-20S Grab Water 231070
5932519	3/18/2010 13:22	GE Patillas Puerto Rico P-20D Grab Water 231070
		GE Patillas Puerto Rico

FTL05 0007



ANALYTICAL RESULTS

Prepared for:

MWH Americas, Inc.
P.O. Box 6610
Broomfield CO 80021
303-385-5500

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425
March 31, 2010

METHODOLOGY

The specified methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO
1 COPY TO

MWH Americas, Inc.
Data Package Group

Attn: Brady Toth

Questions? Contact your Client Services Representative
Natalie R Luciano at (717)656-2300

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Robin C. Runkle".

Robin C. Runkle
Senior Specialist

PTL05 0003

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Name	Units	5932500	MDL	5932501	MDL	5932502	MDL
		EB-01		P-7		P-7A	
		Result		Result		Result	
Acetone	ug/l	14 J	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	3 J	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1	7	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	N.D.	0.8	22	0.8	1 J	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5

PTL05 0010



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4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	7	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5932503		5932504		5932505	
		P-10A	MDL	TB-01	MDL	EB-02	MDL
		Result		Result		Result	
Acetone	ug/l	N.D.	6	N.D.	6	13 J	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	1 J	0.8	N.D.	0.8	3 J	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1

PTL05 0011



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Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	17	1	N.D.	1	N.D.	1
1,2-Dichloroethane	ug/l	1 J	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	630	8	N.D.	0.8	N.D.	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	2 J	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5932506	MDL	5932507	MDL	5932508	MDL
		P-15DD		P-16S		DUP-01	
		Result		Result		Result	

PTL05 0012



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Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	2 J	1	N.D.	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	52	0.8	N.D.	0.8	N.D.	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1

PTL05 0013



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Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5932509		5932510		5932511	
		P-17D	MDL	P-18S	MDL	P-18D	MDL
		Result		Result		Result	
Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1

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Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	2 J	1	2 J	1	2 J	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	72	0.8	27	0.8	33	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	1 J	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5932512	MDL	5932513	MDL	5932514	MDL
		EB-02		DUP-02		P-19S	
		Result		Result		Result	
Acetone	ug/l	14 J	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1

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Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	2 J	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	N.D.	0.8	3 J	0.8	3 J	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

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Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5932515		5932516		5932517	
		P-19D		P-19D		P-19D	
		Unspiked	MDL	Matrix Spike	MDL	Matrix Spike	MDL
		Result		Result		Dup	
Acetone	ug/l	N.D.	6	140	6	140	6
Benzene	ug/l	N.D.	0.5	19	0.5	19	0.5
Bromobenzene	ug/l	N.D.	1	19	1	21	1
Bromochloromethane	ug/l	N.D.	1	19	1	20	1
Bromodichloromethane	ug/l	N.D.	1	19	1	19	1
Bromoform	ug/l	N.D.	1	16	1	16	1
Bromomethane	ug/l	N.D.	1	15	1	15	1
2-Butanone	ug/l	N.D.	3	130	3	120	3
n-Butylbenzene	ug/l	N.D.	1	21	1	21	1
sec-Butylbenzene	ug/l	N.D.	1	20	1	22	1
tert-Butylbenzene	ug/l	N.D.	1	20	1	21	1
Carbon Tetrachloride	ug/l	N.D.	1	20	1	21	1
Chlorobenzene	ug/l	N.D.	0.8	19	0.8	20	0.8
Chloroethane	ug/l	N.D.	1	13	1	14	1
Chloroform	ug/l	1 J	0.8	21	0.8	21	0.8
Chloromethane	ug/l	N.D.	1	16	1	16	1
2-Chlorotoluene	ug/l	N.D.	1	20	1	21	1
4-Chlorotoluene	ug/l	N.D.	1	20	1	21	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	18	2	19	2
Dibromochloromethane	ug/l	N.D.	1	17	1	18	1
1,2-Dibromoethane	ug/l	N.D.	1	17	1	19	1
Dibromomethane	ug/l	N.D.	1	19	1	19	1
1,2-Dichlorobenzene	ug/l	N.D.	1	19	1	20	1
1,3-Dichlorobenzene	ug/l	N.D.	1	20	1	21	1
1,4-Dichlorobenzene	ug/l	N.D.	1	19	1	20	1
Dichlorodifluoromethane	ug/l	N.D.	2	15	2	16	2
1,1-Dichloroethane	ug/l	N.D.	1	21	1	21	1

PTL05 0017



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1,2-Dichloroethane	ug/l	N.D.	1	19	1	19	1
1,1-Dichloroethene	ug/l	6	0.8	29	0.8	30	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	20	0.8	21	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	21	0.8	21	0.8
1,2-Dichloropropane	ug/l	N.D.	1	19	1	19	1
1,3-Dichloropropane	ug/l	N.D.	1	18	1	19	1
2,2-Dichloropropane	ug/l	N.D.	1	20	1	21	1
1,1-Dichloropropene	ug/l	N.D.	1	20	1	20	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	17	1	17	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	18	1	18	1
Ethylbenzene	ug/l	N.D.	0.8	20	0.8	21	0.8
Hexachlorobutadiene	ug/l	N.D.	2	21	2	23	2
Isopropylbenzene	ug/l	N.D.	1	20	1	21	1
p-Isopropyltoluene	ug/l	N.D.	1	20	1	21	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	18	0.5	19	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	73	3	73	3
Methylene Chloride	ug/l	N.D.	2	20	2	21	2
Naphthalene	ug/l	N.D.	1	19	1	21	1
n-Propylbenzene	ug/l	N.D.	1	21	1	21	1
Styrene	ug/l	N.D.	1	19	1	20	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	18	1	19	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	19	1	20	1
Tetrachloroethene	ug/l	N.D.	0.8	20	0.8	20	0.8
Toluene	ug/l	N.D.	0.7	19	0.7	20	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	19	1	20	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	19	1	21	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	21	0.8	21	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	19	0.8	19	0.8
Trichloroethene	ug/l	N.D.	1	20	1	20	1
Trichlorofluoromethane	ug/l	N.D.	2	20	2	20	2
1,2,3-Trichloropropane	ug/l	N.D.	1	19	1	19	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	21	1	22	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	20	1	21	1
Vinyl Chloride	ug/l	N.D.	1	19	1	19	1
m+p-Xylene	ug/l	N.D.	0.8	38	0.8	40	0.8
o-Xylene	ug/l	N.D.	0.8	20	0.8	20	0.8

Analysis Name	Units	5932518		5932519	
		P-20S		P-20D	
		Result	MDL	Result	MDL
Acetone	ug/l	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1

PTL05 0018



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Bromomethane	ug/l	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1
Chloroform	ug/l	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	8	0.8	22	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1

PTL85 0519



MWH Americas, Inc.
 Project: GE Patillas Puerto Rico
 SDG: PTL05

Report Date: 3/31/2010 17:16
 Submit Date: 3/19/2010 9:15

1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8

PTL05 0020



CAT No.	Analysis Name	Method	Trial ID	Analysis Date/Time	Analyst	Dilution
5932500	EB-01 Grab Water					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1139	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1139	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1139	Linda C Pape	1
5932501	P-7 Grab Water					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1434	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1434	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1434	Linda C Pape	1
5932502	P-7A Grab Water					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1456	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1456	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1456	Linda C Pape	1
5932503	P-10A Grab Water					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1518	Linda C Pape	1
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1940	Linda C Pape	10
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1518	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1518	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	3/23/10 1940	Linda C Pape	10
5932504	TB-01 Water					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1201	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1201	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1201	Linda C Pape	1
5932505	EB-02 Grab Water					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1223	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1223	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1223	Linda C Pape	1
5932506	P-15DD Grab Water					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 2002	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 2002	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 2002	Linda C Pape	1
5932507	P-16S Grab Water					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1602	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1602	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1602	Linda C Pape	1
5932508	DUP-01 Grab Water					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1624	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1624	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1624	Linda C Pape	1
5932509	P-17D Grab Water					

FTL05 0021



CAT No.	Analysis Name	Method	Trial Analysis		Analyst	Dilution
			ID	Date/Time		
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1646	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1646	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1646	Linda C Pape	1
5932510 P-18S Grab Water						
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1707	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1707	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1707	Linda C Pape	1
5932511 P-18D Grab Water						
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1729	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1729	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1729	Linda C Pape	1
5932512 EB-02 Grab Water						
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1245	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1245	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1245	Linda C Pape	1
5932513 DUP-02 Grab Water						
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1751	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1751	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1751	Linda C Pape	1
5932514 P-19S Grab Water						
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1813	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1813	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1813	Linda C Pape	1
5932515 P-19D Unspiked Grab Water						
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1328	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1328	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1328	Linda C Pape	1
5932516 P-19D Matrix Spike Grab Water						
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1350	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1350	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1350	Linda C Pape	1
5932517 P-19D Matrix Spike Dup Grab Water						
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1412	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1412	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1412	Linda C Pape	1
5932518 P-20S Grab Water						
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1835	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1835	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1835	Linda C Pape	1

PTL05 0022



CAT No.	Analysis Name	Method	Trial Analysis		Analyst	Dilution
			ID	Date/Time		
5932519	P-20D Grab Water					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	3/23/10 1857	Linda C Pape	1
00310	8260B water special scan	SW-846 8260B	1	3/23/10 1857	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	3/23/10 1857	Linda C Pape	1

PTL05 0023



Client Name: MWH Americas, Inc.

Group Number: 1186825

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	Max RPD
Batch number: L100821AA		Sample number(s): 5932500-5932519						
Acetone	N.D.	6.	ug/l	90		49-234		
Benzene	N.D.	0.5	ug/l	86		79-120		
Bromobenzene	N.D.	1.	ug/l	94		80-120		
Bromochloromethane	N.D.	1.	ug/l	87		80-120		
Bromodichloromethane	N.D.	1.	ug/l	92		80-120		
Bromoform	N.D.	1.	ug/l	83		61-120		
Bromomethane	N.D.	1.	ug/l	67		44-120		
2-Butanone	N.D.	3.	ug/l	85		66-151		
n-Butylbenzene	N.D.	1.	ug/l	92		74-120		
sec-Butylbenzene	N.D.	1.	ug/l	93		78-120		
tert-Butylbenzene	N.D.	1.	ug/l	94		80-120		
Carbon Tetrachloride	N.D.	1.	ug/l	90		75-123		
Chlorobenzene	N.D.	0.8	ug/l	89		80-120		
Chloroethane	N.D.	1.	ug/l	59		49-129		
Chloroform	N.D.	0.8	ug/l	88		77-122		
Chloromethane	N.D.	1.	ug/l	62		60-129		
2-Chlorotoluene	N.D.	1.	ug/l	95		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	92		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	89		66-120		
Dibromochloromethane	N.D.	1.	ug/l	88		80-120		
1,2-Dibromoethane	N.D.	1.	ug/l	87		80-120		
Dibromomethane	N.D.	1.	ug/l	90		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	91		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	93		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	89		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/l	68		54-152		
1,1-Dichloroethane	N.D.	1.	ug/l	95		79-120		
1,2-Dichloroethane	N.D.	1.	ug/l	89		70-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	96		74-123		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	93		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	93		80-120		
1,2-Dichloropropane	N.D.	1.	ug/l	90		78-120		
1,3-Dichloropropane	N.D.	1.	ug/l	90		80-120		
2,2-Dichloropropane	N.D.	1.	ug/l	90		77-124		
1,1-Dichloropropene	N.D.	1.	ug/l	89		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	86		80-120		

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

PTL05 0024



trans-1,3-Dichloropropene	N.D.	1.	ug/l	89	79-120
Ethylbenzene	N.D.	0.8	ug/l	91	79-120
Hexachlorobutadiene	N.D.	2.	ug/l	95	58-120
Isopropylbenzene	N.D.	1.	ug/l	93	77-120
p-Isopropyltoluene	N.D.	1.	ug/l	91	80-120
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	87	76-120
4-Methyl-2-pentanone	N.D.	3.	ug/l	71	70-121
Methylene Chloride	N.D.	2.	ug/l	93	80-120
Naphthalene	N.D.	1.	ug/l	97	62-120
n-Propylbenzene	N.D.	1.	ug/l	94	80-120
Styrene	N.D.	1.	ug/l	89	80-120
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	87	80-120
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	91	71-120
Tetrachloroethene	N.D.	0.8	ug/l	90	80-121
Toluene	N.D.	0.7	ug/l	87	79-120
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	96	65-120
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	96	67-120
1,1,1-Trichloroethane	N.D.	0.8	ug/l	91	75-127
1,1,2-Trichloroethane	N.D.	0.8	ug/l	91	80-120
Trichloroethene	N.D.	1.	ug/l	91	80-120
Trichlorofluoromethane	N.D.	2.	ug/l	83	64-129
1,2,3-Trichloropropane	N.D.	1.	ug/l	90	80-120
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	96	74-120
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	92	75-120
Vinyl Chloride	N.D.	1.	ug/l	73	59-120
m+p-Xylene	N.D.	0.8	ug/l	88	80-120
o-Xylene	N.D.	0.8	ug/l	89	80-120

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
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Batch number: L100821AA

Sample number(s): 5932500-5932519 UNSPK: 5932515

Acetone	92	92	52-139	0	30
Benzene	95	95	80-126	0	30
Bromobenzene	97	105	82-115	8	30
Bromochloromethane	96	98	83-123	1	30
Bromodichloromethane	95	97	78-125	2	30
Bromoform	78	82	60-121	5	30
Bromomethane	73	76	38-149	5	30
2-Butanone	84	83	57-138	2	30
n-Butylbenzene	104	107	73-128	3	30
sec-Butylbenzene	102	108	79-125	6	30

* - Outside of specification

PTL05 0825

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



tert-Butylbenzene	102	107	81-121	5	30
Carbon Tetrachloride	101	104	81-138	3	30
Chlorobenzene	96	98	87-124	2	30
Chloroethane	67	68	51-145	2	30
Chloroform	99	99	81-134	0	30
Chloromethane	80	78	67-154	2	30
2-Chlorotoluene	102	105	82-118	3	30
4-Chlorotoluene	100	104	84-122	4	30
1,2-Dibromo-3-chloropropane	90	94	66-121	5	30
Dibromochloromethane	87	90	74-116	4	30
1,2-Dibromoethane	86	93	77-116	7	30
Dibromomethane	94	95	83-119	2	30
1,2-Dichlorobenzene	97	101	84-119	4	30
1,3-Dichlorobenzene	99	103	86-121	4	30
1,4-Dichlorobenzene	97	99	85-121	3	30
Dichlorodifluoromethane	77	80	64-163	4	30
1,1-Dichloroethane	106	107	84-129	1	30
1,2-Dichloroethane	94	96	66-141	2	30
1,1-Dichloroethene	111	116	85-142	3	30
cis-1,2-Dichloroethene	101	103	85-125	2	30
trans-1,2-Dichloroethene	104	105	87-126	1	30
1,2-Dichloropropane	97	95	83-124	2	30
1,3-Dichloropropane	92	95	81-120	3	30
2,2-Dichloropropane	102	104	81-135	3	30
1,1-Dichloropropene	101	102	86-137	1	30
cis-1,3-Dichloropropene	86	87	75-125	1	30
trans-1,3-Dichloropropene	89	91	74-119	3	30
Ethylbenzene	99	103	71-134	4	30
Hexachlorobutadiene	103	113	56-134	9	30
Isopropylbenzene	102	107	75-128	4	30
p-Isopropyltoluene	102	105	76-123	2	30
Methyl Tertiary Butyl Ether	91	94	72-126	2	30
4-Methyl-2-pentanone	73	73	63-123	1	30
Methylene Chloride	101	103	79-120	1	30
Naphthalene	97	104	52-125	8	30
n-Propylbenzene	103	107	74-134	4	30
Styrene	96	98	60-140	3	30
1,1,1,2-Tetrachloroethane	92	95	82-119	3	30
1,1,2,2-Tetrachloroethane	96	98	73-119	3	30
Tetrachloroethene	99	101	80-128	2	30
Toluene	95	98	80-125	4	30
1,2,3-Trichlorobenzene	94	102	57-122	9	30
1,2,4-Trichlorobenzene	96	106	60-122	11	30
1,1,1-Trichloroethane	104	107	80-143	3	30
1,1,2-Trichloroethane	95	96	77-124	1	30
Trichloroethene	102	102	88-133	0	30
Trichlorofluoromethane	98	99	73-152	1	30
1,2,3-Trichloropropane	96	95	76-118	0	30
1,2,4-Trimethylbenzene	106	109	72-130	3	30

* - Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
 (2) The unspiked result was more than four times the spike added.

PTL05 0026



1,3,5-Trimethylbenzene	102	106	72-131	4	30
Vinyl Chloride	96	93	66-133	3	30
m+p-Xylene	95	100	79-125	5	30
o-Xylene	98	101	79-125	3	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Appendix IX by 8260 - water

Batch number: L100821AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5932500	102	100	99	99
5932501	102	101	100	99
5932502	100	101	100	98
5932503	100	101	99	99
5932504	100	99	100	99
5932505	100	100	99	97
5932506	100	99	100	97
5932507	99	99	101	98
5932508	99	97	101	98
5932509	100	99	100	99
5932510	100	101	100	98
5932511	99	100	101	98
5932512	100	99	100	98
5932513	100	100	100	98
5932514	99	99	99	98
5932515	99	99	102	99
5932516	103	101	100	97
5932517	102	100	101	100
5932518	100	98	100	96
5932519	99	97	100	95
Blank	100	100	99	99
LCS	102	100	99	98
MS	103	101	100	97
MSD	102	100	101	100
Limits:	80-116	77-113	80-113	78-113

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

PTL85 0027



QC Comment

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

5932500 EB-01 Grab Water

5932501 P-7 Grab Water

5932502 P-7A Grab Water

5932503 P-10A Grab Water

5932504 TB-01 Water

5932505 EB-02 Grab Water

5932506 P-15DD Grab Water

5932507 P-16S Grab Water

5932508 DUP-01 Grab Water

5932509 P-17D Grab Water

5932510 P-18S Grab Water

5932511 P-18D Grab Water

PTL05 0028



5932512 EB-02 Grab Water

5932513 DUP-02 Grab Water

5932514 P-19S Grab Water

5932515 P-19D Unspiked Grab Water

5932516 P-19D Matrix Spike Grab Water

5932517 P-19D Matrix Spike Dup Grab Water

5932518 P-20S Grab Water

5932519 P-20D Grab Water

PTL05 0029

Volatiles by GC/MS Data

**Case Narrative
Conformance/Nonconformance
Summary**

CASE NARRATIVE
Client: MWH Americas, Inc.
SDG#: PTL05

LANCASTER LABORATORIES
VOLATILES BY GC/MS

SAMPLE NUMBERS:

<u>LL #'s</u>	<u>Sample Code</u>	<u>Matrix</u>		<u>Comments</u>
		<u>Water</u>		
5932500	PATE1	X		Client Blank
5932501	PATP7	X		
5932502	PAT7A	X		
5932503	PAT10	X		
5932503	PAT10DL	X		10 X Dilution
5932504	PATT1	X		Client Blank
5932505	PATE2	X		Client Blank
5932506	PA15D	X		
5932507	PA16S	X		
5932508	PATD1	X		
5932509	PA17D	X		
5932510	PA18S	X		
5932511	PA18D	X		
5932512	PAEB2	X		Client Blank
5932513	PATD2	X		
5932514	PA19S	X		
5932515	PA19D	X		Unspiked
5932516	PA19DMS	X		Matrix Spike
5932517	PA19DMSD	X		Matrix Spike Dup
5932518	PA20S	X		
5932519	PA20D	X		

LABORATORY SUBMITTED QC:

VBLKL72	VBLKL72	X	Method Blank
LCSL72	LCSL72	X	Lab Control Sample

SAMPLE PREPARATION:

No sample preparation was necessary for the VOA fraction.

PTL05 0832

ANALYSIS:

No problems were encountered during the analysis of these samples.

QUALITY CONTROL and NONCONFORMANCE SUMMARY:

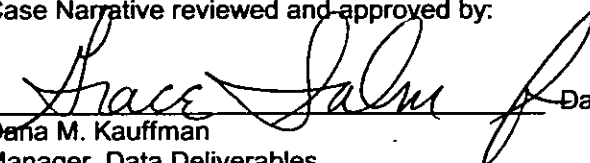
Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCD was performed, unless otherwise specified in the method or by the client.

All QC is within specifications.

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

Case Narrative reviewed and approved by:

 Date 4-8-10
Dana M. Kauffman
Manager, Data Deliverables

PTL05 0033

QC Summary

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLKLV72

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: VLKLV72

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/10mar23a.b/lm23b02.d

Level: (low/med) LOW Date Received: _____

Moisture: not dec. _____ Date Analyzed: 03/23/10

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/L Q

75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	2	U
60-29-7	Ethyl Ether	2	U
107-02-8	Acrolein	40	U
75-35-4	1,1-Dichloroethene	0.8	U
76-13-1	Freon 113	2	U
67-64-1	Acetone	6	U
67-63-0	2-Propanol	50	U
74-88-4	Methyl Iodide	1	U
75-15-0	Carbon Disulfide	1	U
79-20-9	Methyl Acetate	1	U
107-05-1	Allyl Chloride	1	U
75-09-2	Methylene Chloride	2	U
75-65-0	t-Butyl Alcohol	10	U
107-13-1	Acrylonitrile	4	U
156-60-5	trans-1,2-Dichloroethene	0.8	U
1634-04-4	Methyl Tertiary Butyl Ether	0.5	U
110-54-3	n-Hexane	2	U
75-34-3	1,1-Dichloroethane	1	U
108-20-3	di-Isopropyl Ether	0.8	U
126-99-8	2-Chloro-1,3-Butadiene	1	U
637-92-3	Ethyl t-Butyl Ether	0.8	U
540-59-0	1,2-Dichloroethene (total)	0.8	U
156-59-2	cis-1,2-Dichloroethene	0.8	U
594-20-7	2,2-Dichloropropane	1	U
78-93-3	2-Butanone	3	U

PTL05 8835

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLKLV72

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: VLKLV72

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/10mar23a.b/lm23b02.d

Level: (low/med) LOW Date Received: _____

Moisture: not dec. _____ Date Analyzed: 03/23/10

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/L Q

107-12-0-----	Propionitrile	30	U
126-98-7-----	Methacrylonitrile	10	U
74-97-5-----	Bromochloromethane	1	U
109-99-9-----	Tetrahydrofuran	4	U
67-66-3-----	Chloroform	0.8	U
71-55-6-----	1,1,1-Trichloroethane	0.8	U
110-82-7-----	Cyclohexane	2	U
563-58-6-----	1,1-Dichloropropene	1	U
56-23-5-----	Carbon Tetrachloride	1	U
78-83-1-----	Isobutyl Alcohol	100	U
71-43-2-----	Benzene	0.5	U
107-06-2-----	1,2-Dichloroethane	1	U
994-05-8-----	t-Amyl Methyl Ether	0.8	U
142-82-5-----	n-Heptane	2	U
71-36-3-----	n-Butanol	100	U
79-01-6-----	Trichloroethene	1	U
108-87-2-----	Methylcyclohexane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
74-95-3-----	Dibromomethane	1	U
80-62-6-----	Methyl Methacrylate	1	U
123-91-1-----	1,4-Dioxane	70	U
75-27-4-----	Bromodichloromethane	1	U
79-46-9-----	2-Nitropropane	2	U
110-75-8-----	2-Chloroethyl Vinyl Ether	2	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
108-10-1-----	4-Methyl-2-Pentanone	3	U
108-88-3-----	Toluene	0.7	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
97-63-2-----	Ethyl Methacrylate	1	U
79-00-5-----	1,1,2-Trichloroethane	0.8	U

PTL05 0036

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBKKL72

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: VBKKL72

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/10mar23a.b/lm23b02.d

Level: (low/med) LOW Date Received: _____

Moisture: not dec. _____ Date Analyzed: 03/23/10

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/L Q

127-18-4	Tetrachloroethene	0.8	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	0.8	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	0.8	U
179601-23-1	m+p-Xylene	0.8	U
95-47-6	o-Xylene	0.8	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (Total)	0.8	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
108-94-1	Cyclohexanone	55	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-86-1	Bromobenzene	1	U
96-18-4	1,2,3-Trichloropropane	1	U
110-57-6	trans-1,4-Dichloro-2-Butene	15	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
76-01-7	Pentachloroethane	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
526-73-8	1,2,3-Trimethylbenzene	1	U

PTL05 0037

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBKLL72

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: VBKLL72

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: HP09915.i/10mar23a.b/lm23b02.d

Level: (low/med) LOW

Date Received:

Moisture: not dec. _____

Date Analyzed: 03/23/10

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) MDL ug/L

Q

106-46-7-----	1,4-Dichlorobenzene	1	U
100-44-7-----	Benzyl Chloride	1	U
141-93-5-----	1,3-Diethylbenzene	1	U
105-05-5-----	1,4-Diethylbenzene	1	U
135-01-3-----	1,2-Diethylbenzene	1	U
104-51-8-----	n-Butylbenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	2	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U
87-68-3-----	Hexachlorobutadiene	2	U
91-20-3-----	Naphthalene	1	U
87-61-6-----	1,2,3-Trichlorobenzene	1	U
25340-17-4-----	Diethylbenzene (total)	1	U

PTL85 8838

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.: PTL05

	LL #'s	EPA SAMPLE NO.	S1 (DBF) #	S2 (DCA) #	S3 (TOL) #	S4 (BFB) #	TOT OUT
01	5932500	PATE1	102	100	99	99	0
02	5932501	PATP7	102	101	100	99	0
03	5932502	PAT7A	100	101	100	98	0
04	5932503	PAT10	100	101	99	99	0
05	5932503	PAT10DL	99	99	100	97	0
06	5932504	PATT1	100	99	100	99	0
07	5932505	PATE2	100	100	99	97	0
08	5932506	PA15D	100	99	100	97	0
09	5932507	PA16S	99	99	101	98	0
10	5932508	PATD1	99	97	101	98	0
11	5932509	PA17D	100	99	100	99	0
12	5932510	PA18S	100	101	100	98	0
13	5932511	PA18D	99	100	101	98	0
14	5932512	PAEB2	100	99	100	98	0
15	5932513	PATD2	100	100	100	98	0
16	5932514	PA19S	99	99	99	98	0
17	5932515	PA19D	99	99	102	99	0
18	5932516	PA19DMS	103	101	100	97	0
19	5932517	PA19DMSD	102	100	101	100	0
20	5932518	PA20S	100	98	100	96	0
21	5932519	PA20D	99	97	100	95	0
22	VBLKL72	VBLKL72	100	100	99	99	0
23	LCSL72	LCSL72	102	100	99	98	0

	QC LIMITS
S1 (DBF) = Dibromofluoromethane	(80-116)
S2 (DCA) = 1,2-Dichloroethane-d4	(77-113)
S3 (TOL) = Toluene-d8	(80-113)
S4 (BFB) = 4-Bromofluorobenzene	(78-113)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

page 1 of 1

PTL05 8839

Lancaster Laboratories, Inc.
GC/MS Volatiles Matrix Spike/Spike Duplicate Recoveries
=====

Unspiked: lm23s06.d
PA19D 5932515
Method: SW-846 8260B
Instrument: HP09915

Matrix Spike: lm23s07.d
PA19DMS 5932516
Matrix/Level: WL
Dilution Factor: 1.00

Spike Duplicate: lm23s08.d
PA19DMSD 5932517
Batch: L100821AA

COMPOUND NAME	MS SPIKE	MSD SPIKE	US CONC UG/L	MS CONC UG/L	MSD CONC UG/L	MS REC %	MSD REC %	Range LOWER-UPPER	INSPEC	RPD %	RPD MAX
Dichlorodifluoromethane	20.0	20.0	ND	15.4	15.9	77	80	64-163	YES	4	30
Chloromethane	20.0	20.0	ND	15.9	15.6	80	78	67-154	YES	2	30
Vinyl Chloride	20.0	20.0	ND	19.2	18.6	96	93	66-133	YES	3	30
Bromomethane	20.0	20.0	ND	14.6	15.3	73	76	38-149	YES	5	30
Chloroethane	20.0	20.0	ND	13.3	13.6	67	68	51-145	YES	2	30
Trichlorofluoromethane	20.0	20.0	ND	19.6	19.9	98	99	73-152	YES	1	30
1,1-Dichloroethene	20.0	20.0	6.48	28.7	29.6	111	116	85-142	YES	3	30
Acetone	150.0	150.0	ND	138	138	92	92	52-139	YES	0	30
Methylene Chloride	20.0	20.0	ND	20.2	20.5	101	103	79-120	YES	1	30
trans-1,2-Dichloroethene	20.0	20.0	ND	20.8	20.9	104	105	87-126	YES	1	30
Methyl Tertiary Butyl Ether	20.0	20.0	ND	18.3	18.8	91	94	72-126	YES	2	30
1,1-Dichloroethane	20.0	20.0	ND	21.1	21.3	106	107	84-129	YES	1	30
cis-1,2-Dichloroethene	20.0	20.0	ND	20.3	20.7	101	103	85-125	YES	2	30
2-Butanone	150.0	150.0	ND	126	124	84	83	57-138	YES	2	30
2,2-Dichloropropane	20.0	20.0	ND	20.3	20.8	102	104	81-135	YES	3	30
Bromochloromethane	20.0	20.0	ND	19.2	19.5	96	98	83-123	YES	1	30
Chloroform	20.0	20.0	1.07	21.0	20.9	99	99	81-134	YES	0	30
1,1,1-Trichloroethane	20.0	20.0	ND	20.8	21.5	104	107	80-143	YES	3	30
1,1-Dichloropropene	20.0	20.0	ND	20.2	20.5	101	102	86-137	YES	1	30
Carbon Tetrachloride	20.0	20.0	ND	20.2	20.8	101	104	81-138	YES	3	30
Benzene	20.0	20.0	ND	19.0	19.1	95	95	80-126	YES	0	30
1,2-Dichloroethane	20.0	20.0	ND	18.8	19.2	94	96	66-141	YES	2	30
Trichloroethene	20.0	20.0	ND	20.4	20.5	102	102	88-133	YES	0	30
1,2-Dichloropropane	20.0	20.0	ND	19.4	19.0	97	95	83-124	YES	2	30
Dibromomethane	20.0	20.0	ND	18.7	19.1	94	95	83-119	YES	2	30
Bromodichloromethane	20.0	20.0	ND	19.0	19.5	95	97	78-125	YES	2	30
cis-1,3-Dichloropropene	20.0	20.0	ND	17.2	17.4	86	87	75-125	YES	1	30
4-Methyl-2-Pentanone	100.0	100.0	ND	73.4	72.8	73	73	63-123	YES	0	30
Toluene	20.0	20.0	ND	18.9	19.6	95	98	80-125	YES	4	30
trans-1,3-Dichloropropene	20.0	20.0	ND	17.8	18.2	89	91	74-119	YES	3	30
1,1,2-Trichloroethane	20.0	20.0	ND	18.9	19.1	95	96	77-124	YES	1	30
Tetrachloroethene	20.0	20.0	ND	19.8	20.2	99	101	80-128	YES	2	30
1,3-Dichloropropane	20.0	20.0	ND	18.5	19.1	92	95	81-120	YES	3	30
Dibromochloromethane	20.0	20.0	ND	17.3	18.1	87	90	74-116	YES	4	30
1,2-Dibromoethane	20.0	20.0	ND	17.3	18.6	86	93	77-116	YES	7	30
Chlorobenzene	20.0	20.0	ND	19.2	19.6	96	98	87-124	YES	2	30
1,1,1,2-Tetrachloroethane	20.0	20.0	ND	18.5	19.0	92	95	82-119	YES	2	30
Ethylbenzene	20.0	20.0	ND	19.7	20.6	99	103	71-134	YES	5	30
m+p-Xylene	40.0	40.0	ND	38.1	40.0	95	100	79-125	YES	5	30
o-Xylene	20.0	20.0	ND	19.6	20.1	98	101	79-125	YES	3	30
Styrene	20.0	20.0	ND	19.2	19.7	96	98	60-140	YES	3	30
Bromoform	20.0	20.0	ND	15.7	16.4	78	82	60-121	YES	5	30
Isopropylbenzene	20.0	20.0	ND	20.5	21.3	102	107	75-128	YES	4	30
1,1,2,2-Tetrachloroethane	20.0	20.0	ND	19.1	19.7	96	98	73-119	YES	3	30
Bromobenzene	20.0	20.0	ND	19.4	21.0	97	105	82-115	YES	8	30
1,2,3-Trichloropropane	20.0	20.0	ND	19.1	19.1	96	95	76-118	YES	0	30
n-Propylbenzene	20.0	20.0	ND	20.5	21.4	103	107	74-134	YES	4	30
2-Chlorotoluene	20.0	20.0	ND	20.4	21.0	102	105	82-118	YES	3	30
1,3,5-Trimethylbenzene	20.0	20.0	ND	20.4	21.2	102	106	72-131	YES	4	30
4-Chlorotoluene	20.0	20.0	ND	20.0	20.7	100	104	84-122	YES	4	30
tert-Butylbenzene	20.0	20.0	ND	20.4	21.5	102	107	81-121	YES	5	30
1,2,4-Trimethylbenzene	20.0	20.0	ND	21.2	21.9	106	109	72-130	YES	3	30
sec-Butylbenzene	20.0	20.0	ND	20.4	21.6	102	108	79-125	YES	6	30
1,3-Dichlorobenzene	20.0	20.0	ND	19.8	20.7	99	103	86-121	YES	4	30
p-Isopropyltoluene	20.0	20.0	ND	20.5	20.9	102	105	76-123	YES	2	30
1,4-Dichlorobenzene	20.0	20.0	ND	19.4	19.9	97	99	85-121	YES	3	30
n-Butylbenzene	20.0	20.0	ND	20.7	21.4	104	107	73-128	YES	3	30
1,2-Dichlorobenzene	20.0	20.0	ND	19.3	20.2	97	101	84-119	YES	4	30

P1185 8848
N/C = Could not calculate
Ent. by _____
Ver. by _____

Lab Chronicle: _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Matrix Spike/Spike Duplicate Recoveries
=====

Unspiked: lm23s06.d
PA19D 5932515
Method: SW-846 8260B
Instrument: HP09915

Matrix Spike: lm23s07.d
PA19DMS 5932516
Matrix/Level: WL
Dilution Factor: 1.00

Spike Duplicate: lm23s08.d
PA19DMSD 5932517
Batch: L100821AA

COMPOUND NAME	MS SPIKE	MSD SPIKE	US CONC UG/L	MS CONC UG/L	MSD CONC UG/L	MS REC %	MSD REC %	Range LOWER-UPPER	INSPEC	RPD %	RPD MAX
1,2-Dibromo-3-Chloropropane	20.0	20.0	ND	18.0	18.8	90	94	66-121	YES	5	30
1,2,4-Trichlorobenzene	20.0	20.0	ND	19.1	21.2	96	106	60-122	YES	11	30
Hexachlorobutadiene	20.0	20.0	ND	20.6	22.6	103	113	56-134	YES	9	30
Naphthalene	20.0	20.0	ND	19.3	20.8	97	104	52-125	YES	8	30
1,2,3-Trichlorobenzene	20.0	20.0	ND	18.7	20.5	94	102	57-122	YES	9	30

PT135-#841

N/C = Could not calculate

Lab Chronicle: _____ Ent. by _____

Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Laboratory Control Sample Recovery
=====

File: lm23101.d
Inst: HP09915
Dilution Factor: 1.0

Injected: 03/23/10 at 10:58
Sample: LCSL72

Method: SW-846 82608
Matrix/Level: WL
Batch: L100821AA

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCS REC %	Range LOWER-UPPER	INSPEC
Dichlorodifluoromethane	20.00	13.53	68	54-152	YES
Chloromethane	20.00	12.47	62	60-129	YES
Vinyl Chloride	20.00	14.59	73	59-120	YES
Bromomethane	20.00	13.30	67	44-120	YES
Chloroethane	20.00	11.74	59	49-129	YES
Trichlorofluoromethane	20.00	16.54	83	64-129	YES
Ethyl Ether	20.00	22.94	115	23-144	YES
Acrolein	150.00	145.73	97	43-135	YES
1,1-Dichloroethene	20.00	19.28	96	74-123	YES
Freon 113	20.00	19.70	99	69-128	YES
Acetone	150.00	134.37	90	49-234	YES
2-Propanol	150.00	132.27	88	67-122	YES
Methyl Iodide	20.00	17.77	89	71-122	YES
Carbon Disulfide	20.00	17.90	90	62-120	YES
Allyl Chloride	20.00	19.16	96	65-140	YES
Methyl Acetate	20.00	18.25	91	73-139	YES
Methylene Chloride	20.00	18.61	93	80-120	YES
t-Butyl Alcohol	200.00	177.71	89	73-120	YES
Acrylonitrile	100.00	86.30	86	67-120	YES
trans-1,2-Dichloroethene	20.00	18.57	93	80-120	YES
Methyl Tertiary Butyl Ether	20.00	17.42	87	76-120	YES
n-Hexane	20.00	19.50	98	61-132	YES
1,2-Dichloroethene (total)	40.00	37.23	93	80-120	YES
1,1-Dichloroethane	20.00	19.00	95	79-120	YES
di-Isopropyl Ether	20.00	17.57	88	71-124	YES
2-Chloro-1,3-Butadiene	20.00	18.63	93	73-136	YES
Ethyl t-Butyl Ether	20.00	17.26	86	76-120	YES
cis-1,2-Dichloroethene	20.00	18.65	93	80-120	YES
2-Butanone	150.00	127.57	85	66-151	YES
2,2-Dichloropropane	20.00	17.99	90	77-124	YES
Propionitrile	150.00	132.42	88	69-131	YES
Methacrylonitrile	150.00	126.00	84	80-120	YES
Bromochloromethane	20.00	17.37	87	80-120	YES
Tetrahydrofuran	100.00	83.57	84	64-139	YES
Chloroform	20.00	17.56	88	77-122	YES
1,1,1-Trichloroethane	20.00	18.14	91	75-127	YES
Cyclohexane	20.00	18.06	90	65-125	YES
1,1-Dichloropropene	20.00	17.73	89	80-120	YES
Carbon Tetrachloride	20.00	17.95	90	75-123	YES
Isobutyl Alcohol	500.00	409.17	82	70-128	YES
Benzene	20.00	17.27	86	79-120	YES
1,2-Dichloroethane	20.00	17.75	89	70-130	YES
t-Amyl Methyl Ether	20.00	16.17	81	77-120	YES
n-Heptane	20.00	18.02	90	53-132	YES
n-Butanol	1000.00	794.67	79	63-120	YES
Trichloroethene	20.00	18.23	91	80-120	YES
Methylcyclohexane	20.00	18.62	93	71-132	YES
1,2-Dichloropropane	20.00	17.92	90	78-120	YES
Dibromomethane	20.00	18.03	90	80-120	YES
Methyl Methacrylate	20.00	16.78	84	72-120	YES
1,4-Dioxane	500.00	403.94	81	51-129	YES
Bromodichloromethane	20.00	18.32	92	80-120	YES
2-Nitropropane	20.00	14.26	71	39-134	YES
2-Chloroethyl Vinyl Ether	20.00	16.65	83	56-129	YES
cis-1,3-Dichloropropene	20.00	17.20	86	80-120	YES
4-Methyl-2-Pentanone	100.00	71.10	71	70-121	YES
Toluene	20.00	17.37	87	79-120	YES
trans-1,3-Dichloropropene	20.00	17.73	89	79-120	YES

N/C = Could not calculate PTL05 8842

Lab Chronicle: _____ Ent. by _____
Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Laboratory Control Sample Recovery
=====

File: lm23101.d
Inst: HP09915
Dilution Factor: 1.0

Injected: 03/23/10 at 10:58
Sample: LCSL72

Method: SW-846 82608
Matrix/Level: WL
Batch: L100821AA

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCS REC %	Range LOWER-UPPER	INSPEC
Ethyl Methacrylate	20.00	17.22	86	70-120	YES
1,1,2-Trichloroethane	20.00	18.29	91	80-120	YES
Tetrachloroethene	20.00	17.94	90	80-121	YES
1,3-Dichloropropane	20.00	18.01	90	80-120	YES
2-Hexanone	100.00	64.79	65	65-136	YES
Dibromochloromethane	20.00	17.61	88	80-120	YES
1,2-Dibromoethane	20.00	17.30	87	80-120	YES
Chlorobenzene	20.00	17.73	89	80-120	YES
1,1,1,2-Tetrachloroethane	20.00	17.48	87	80-120	YES
Ethylbenzene	20.00	18.23	91	79-120	YES
m+p-Xylene	40.00	35.27	88	80-120	YES
Xylene (Total)	60.00	52.98	88	80-120	YES
o-Xylene	20.00	17.71	89	80-120	YES
Styrene	20.00	17.88	89	80-120	YES
Bromoform	20.00	16.61	83	61-120	YES
Isopropylbenzene	20.00	18.61	93	77-120	YES
Cyclohexanone	500.00	389.99	78	54-128	YES
1,1,2,2-Tetrachloroethane	20.00	18.30	91	71-120	YES
Bromobenzene	20.00	18.88	94	80-120	YES
1,2,3-Trichloropropane	20.00	18.09	90	80-120	YES
trans-1,4-Dichloro-2-Butene	100.00	94.74	95	36-144	YES
n-Propylbenzene	20.00	18.72	94	80-120	YES
2-Chlorotoluene	20.00	19.01	95	80-120	YES
1,3,5-Trimethylbenzene	20.00	18.40	92	75-120	YES
4-Chlorotoluene	20.00	18.36	92	80-120	YES
tert-Butylbenzene	20.00	18.81	94	80-120	YES
Pentachloroethane	20.00	18.29	91	76-120	YES
1,2,4-Trimethylbenzene	20.00	19.19	96	74-120	YES
sec-Butylbenzene	20.00	18.61	93	78-120	YES
1,3-Dichlorobenzene	20.00	18.52	93	80-120	YES
p-Isopropyltoluene	20.00	18.30	91	80-120	YES
1,4-Dichlorobenzene	20.00	17.90	89	80-120	YES
1,2,3-Trimethylbenzene	20.00	18.57	93	80-120	YES
Benzyl Chloride	20.00	17.34	87	69-120	YES
1,3-Diethylbenzene	20.00	18.49	92	80-120	YES
1,4-Diethylbenzene	20.00	18.54	93	77-120	YES
n-Butylbenzene	20.00	18.37	92	74-120	YES
1,2-Dichlorobenzene	20.00	18.24	91	80-120	YES
1,2-Diethylbenzene	20.00	18.33	92	80-120	YES
1,2-Dibromo-3-Chloropropane	20.00	17.87	89	66-120	YES
1,2,4-Trichlorobenzene	20.00	19.17	96	67-120	YES
Hexachlorobutadiene	20.00	18.96	95	58-120	YES
Naphthalene	20.00	19.40	97	62-120	YES
1,2,3-Trichlorobenzene	20.00	19.15	96	65-120	YES
Diethylbenzene (total)	60.00	55.36	92	80-120	YES

PTC05 8043

N/C = Could not calculate

Lab Chronicle: _____ Ent. by _____

Ver. by _____

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: lm23b02.d Lab Sample ID: VBLKL72

Date Analyzed: 03/23/10 Time Analyzed: 10:23

Matrix (soil/water) WATER Level: (low/med) LOW

Instrument ID: HP09915

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCSL72	LCSL72	lm23l01.d	10:58
02	PATE1	5932500	lm23s01.d	11:39
03	PATT1	5932504	lm23s02.d	12:01
04	PATE2	5932505	lm23s03.d	12:23
05	PAEB2	5932512	lm23s04.d	12:45
06	NYATB	5932886	lm23s05.d	13:07
07	PA19D	5932515	lm23s06.d	13:28
08	PA19DMS	5932516	lm23s07.d	13:50
09	PA19DMSD	5932517	lm23s08.d	14:12
10	PATP7	5932501	lm23s09.d	14:34
11	PAT7A	5932502	lm23s10.d	14:56
12	PAT10	5932503	lm23s11.d	15:18
13	PA16S	5932507	lm23s13.d	16:02
14	PATD1	5932508	lm23s14.d	16:24
15	PA17D	5932509	lm23s15.d	16:46
16	PA18S	5932510	lm23s16.d	17:07
17	PA18D	5932511	lm23s17.d	17:29
18	PATD2	5932513	lm23s18.d	17:51
19	PA19S	5932514	lm23s19.d	18:13
20	PA20S	5932518	lm23s20.d	18:35
21	PA20D	5932519	lm23s21.d	18:57
22	NYA07	5932884	lm23s22.d	19:18
23	PAT10DL	5932503	lm23s24.d	19:40
24	PA15D	5932506	lm23s25.d	20:02

COMMENTS: L100821AA

PTL05 8844

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Lab File ID: lm04t03.d BFB Injection Date: 03/04/10
Instrument ID: HP09915 BFB Injection Time: 11:54
Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	51.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.6 (0.7)1
174	Greater than 50.0% of mass 95	89.3
175	5.0 - 9.0% of mass 174	6.2 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	86.7 (97.1)1
177	5.0 - 9.0% of mass 176	6.0 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD300	VSTD300	lm04i01.d	03/04/10	12:18
02	VSTD100	VSTD100	lm04i02.d	03/04/10	12:40
03	VSTD050	VSTD050	lm04i03.d	03/04/10	13:02
04	VSTD020	VSTD020	lm04i04.d	03/04/10	13:24
05	VSTD010	VSTD010	lm04i05.d	03/04/10	14:08
06	1PPBMDL	1PPBMDL	lm04m01.d	03/04/10	14:51
07	VSTD004	VSTD004	lm04i07.d	03/04/10	15:18
08	LCSLICV	LCSLICV	lm04v01.d	03/04/10	15:59

PTL85 8845

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Lab File ID: lm23t01.d BFB Injection Date: 03/23/10
Instrument ID: HP09915 BFB Injection Time: 09:18
Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.9
75	30.0 - 60.0% of mass 95	46.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	1.0 (1.2)1
174	Greater than 50.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.2 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	80.8 (97.1)1
177	5.0 - 9.0% of mass 176	5.3 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	lm23c01.d	03/23/10	09:39
02	VBLKL72	VBLKL72	lm23b02.d	03/23/10	10:23
03	LCSL72	LCSL72	lm23l01.d	03/23/10	10:58
04	PATE1	5932500	lm23s01.d	03/23/10	11:39
05	PATT1	5932504	lm23s02.d	03/23/10	12:01
06	PATE2	5932505	lm23s03.d	03/23/10	12:23
07	PAEB2	5932512	lm23s04.d	03/23/10	12:45
08	NYATB	5932886	lm23s05.d	03/23/10	13:07
09	PA19D	5932515	lm23s06.d	03/23/10	13:28
10	PA19DMS	5932516	lm23s07.d	03/23/10	13:50
11	PA19DMSD	5932517	lm23s08.d	03/23/10	14:12
12	PATP7	5932501	lm23s09.d	03/23/10	14:34
13	PAT7A	5932502	lm23s10.d	03/23/10	14:56
14	PAT10	5932503	lm23s11.d	03/23/10	15:18
15	PA16S	5932507	lm23s13.d	03/23/10	16:02
16	PATD1	5932508	lm23s14.d	03/23/10	16:24
17	PA17D	5932509	lm23s15.d	03/23/10	16:46
18	PA18S	5932510	lm23s16.d	03/23/10	17:07
19	PA18D	5932511	lm23s17.d	03/23/10	17:29
20	PATD2	5932513	lm23s18.d	03/23/10	17:51
21	PA19S	5932514	lm23s19.d	03/23/10	18:13
22	PA20S	5932518	lm23s20.d	03/23/10	18:35

PTL05 8846

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Lab File ID: 1m23t01.d BFB Injection Date: 03/23/10
 Instrument ID: HP09915 BFB Injection Time: 09:18
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.9
75	30.0 - 60.0% of mass 95	46.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	1.0 (1.2)1
174	Greater than 50.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.2 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	80.8 (97.1)1
177	5.0 - 9.0% of mass 176	5.3 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
23	PA20D	5932519	1m23s21.d	03/23/10	18:57
24	NYA07	5932884	1m23s22.d	03/23/10	19:18
25	PAT10DL	5932503	1m23s24.d	03/23/10	19:40
26	PA15D	5932506	1m23s25.d	03/23/10	20:02

PTL85 0047

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): lm23c01.d Date Analyzed: 03/23/10
 Instrument ID: HP09915 Time Analyzed: 09:39
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(TBA)		IS2(FBZ)		IS3(CBZ)		IS4(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====		=====	=====	=====	=====	=====	=====	=====	=====
	12 HOUR STD	171318	3.774	1057099	7.260	758455	10.845	433354	12.745
	UPPER LIMIT	342636	4.274	2114198	7.760	1516910	11.345	866708	13.245
	LOWER LIMIT	85659	3.274	528550	6.760	379228	10.345	216677	12.245
=====		=====	=====	=====	=====	=====	=====	=====	=====
	EPA SAMPLE NO.								
=====		=====	=====	=====	=====	=====	=====	=====	=====
01	VBLKL72	201069	3.793	1104011	7.266	801930	10.845	449104	12.745
02	LCSL72	223148	3.777	1094186	7.260	789152	10.844	434378	12.745
03	PATE1	206368	3.777	1087711	7.266	785573	10.845	429849	12.745
04	PATT1	188535	3.803	1078696	7.269	777108	10.848	420245	12.745
05	PATE2	196063	3.797	1046684	7.266	764218	10.845	411671	12.745
06	PAEB2	179591	3.806	1056759	7.269	765770	10.848	413305	12.745
07	NYATB			1006032	7.266	732019	10.844	394780	12.745
08	PA19D	180067	3.797	989103	7.266	701752	10.848	384216	12.745
09	PA19DMS	201104	3.793	1009046	7.266	727057	10.845	397799	12.742
10	PA19DMSD	201794	3.797	1024055	7.266	725400	10.845	398786	12.745
11	PATP7	202507	3.803	1030991	7.269	739291	10.845	397439	12.745
12	PAT7A	196277	3.784	1073860	7.263	765644	10.845	407285	12.742
13	PAT10	199698	3.800	1055953	7.269	756930	10.848	407636	12.745
14	PA16S	183879	3.784	1031759	7.263	739083	10.845	391908	12.745
15	PATD1	165310	3.803	950267	7.269	681944	10.848	369566	12.745
16	PA17D	172567	3.797	987010	7.272	708876	10.845	383058	12.745
17	PA18S	178140	3.806	987571	7.269	712028	10.844	381742	12.745
18	PA18D	167832	3.790	949162	7.266	683011	10.845	365427	12.745
19	PATD2	172071	3.790	947449	7.263	685073	10.844	368555	12.745
20	PA19S	165600	3.796	952782	7.266	685867	10.844	367931	12.745
21	PA20S	156876	3.784	925849	7.266	670761	10.845	355790	12.745
22	PA20D	163375	3.800	910428	7.266	650556	10.844	343853	12.745

IS1 (TBA)=t-Butyl Alcohol-d10
 IS2 (FBZ)=Fluorobenzene
 IS3 (CBZ)=Chlorobenzene-d5
 IS4 (DCB)=1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

FTL05 8848

Column used to flag values outside QC limits with an asterisk
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): lm23c01.d Date Analyzed: 03/23/10

Instrument ID: HP09915 Time Analyzed: 09:39

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 (TBA)		IS2 (FBZ)		IS3 (CBZ)		IS4 (DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	12 HOUR STD	171318	3.774	1057099	7.260	758455	10.845	433354	12.745
	UPPER LIMIT	342636	4.274	2114198	7.760	1516910	11.345	866708	13.245
	LOWER LIMIT	85659	3.274	528550	6.760	379228	10.345	216677	12.245
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	EPA SAMPLE								
	NO.								
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
23	NYA07			910108	7.263	648876	10.844	349241	12.745
24	PAT10DL	161604	3.796	909682	7.269	647666	10.844	340125	12.742
25	PA15D	153706	3.790	905825	7.263	650691	10.844	338645	12.745

IS1 (TBA)=t-Butyl Alcohol-d10
 IS2 (FBZ)=Fluorobenzene
 IS3 (CBZ)=Chlorobenzene-d5
 IS4 (DCB)=1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

PTL85 8849

Column used to flag values outside QC limits with an asterisk
 * Values outside of QC limits.

Sample Data

<u>Component</u>	<u>MDL</u>	<u>LOQ</u>	<u>Units</u>
06886: Appendix IX by 8260 - water			
Dichlorodifluoromethane	2.0	5.0	ug/l
Chloromethane	1.0	5.0	ug/l
Vinyl Chloride	1.0	5.0	ug/l
Bromomethane	1.0	5.0	ug/l
Chloroethane	1.0	5.0	ug/l
Trichlorofluoromethane	2.0	5.0	ug/l
Acrolein	40	100	ug/l
1,1-Dichloroethene	0.80	5.0	ug/l
Acetone	6.0	20.0	ug/l
Methyl Iodide	1.0	5.0	ug/l
Carbon Disulfide	1.0	5.0	ug/l
Acetonitrile	25.0	100	ug/l
Allyl Chloride	1.0	5.0	ug/l
Methylene Chloride	2.0	5.0	ug/l
Acrylonitrile	4.0	20.0	ug/l
trans-1,2-Dichloroethene	0.80	5.0	ug/l
1,1-Dichloroethane	1.0	5.0	ug/l
Vinyl Acetate	2.0	10	ug/l
2-Chloro-1,3-butadiene	1.0	5.0	ug/l
2-Butanone	3.0	10	ug/l
cis-1,2-Dichloroethene	0.80	5.0	ug/l
Propionitrile	30	100	ug/l
Methacrylonitrile	10	50	ug/l
Chloroform	0.80	5.0	ug/l
1,1,1-Trichloroethane	0.80	5.0	ug/l
Carbon Tetrachloride	1.0	5.0	ug/l
Isobutyl Alcohol	100	250	ug/l
Benzene	0.50	5.0	ug/l
1,2-Dichloroethane	1.0	5.0	ug/l
Trichloroethene	1.0	5.0	ug/l
1,2-Dichloropropane	1.0	5.0	ug/l
Dibromomethane	1.0	5.0	ug/l
Methyl Methacrylate	1.0	5.0	ug/l
1,4-Dioxane	70	250	ug/l
Bromodichloromethane	1.0	5.0	ug/l
cis-1,3-Dichloropropene	1.0	5.0	ug/l
4-Methyl-2-pentanone	3.0	10	ug/l
Toluene	0.70	5.0	ug/l
trans-1,3-Dichloropropene	1.0	5.0	ug/l
Ethyl Methacrylate	1.0	5.0	ug/l
1,1,2-Trichloroethane	0.80	5.0	ug/l
Tetrachloroethene	0.80	5.0	ug/l
2-Hexanone	3.0	10	ug/l
Dibromochloromethane	1.0	5.0	ug/l
1,2-Dibromoethane	1.0	5.0	ug/l
Chlorobenzene	0.80	5.0	ug/l
1,1,1,2-Tetrachloroethane	1.0	5.0	ug/l
Ethylbenzene	0.80	5.0	ug/l
Xylene (Total)	0.80	5.0	ug/l
Styrene	1.0	5.0	ug/l
Bromoform	1.0	5.0	ug/l
1,1,2,2-Tetrachloroethane	1.0	5.0	ug/l
trans-1,4-Dichloro-2-butene	15	50	ug/l
1,2,3-Trichloropropane	1.0	5.0	ug/l
Pentachloroethane	1.0	5.0	ug/l
1,2-Dibromo-3-chloropropane	2.0	5.0	ug/l

PTL05 0051

<u>COMPONENT NAME</u>	<u>MDL</u>	<u>LOQ</u>	<u>DEFAULT UNITS</u>
00310: 8260B water special scan			
Methyl Tertiary Butyl Ether	0.5	5	ug/l
Benzyl Chloride	1.0	5	ug/l
2,2-Dichloropropane	1.0	5	ug/l
Bromochloromethane	1.0	5	ug/l
1,1-Dichloropropene	1.0	5	ug/l
Dibromomethane	1.0	5	ug/l
1,3-Dichloropropane	1.0	5	ug/l
m+p-Xylene	0.8	5	ug/l
o-Xylene	0.8	5	ug/l
Isopropylbenzene	1.0	5	ug/l
Bromobenzene	1.0	5	ug/l
n-Propylbenzene	1.0	5	ug/l
2-Chlorotoluene	1.0	5	ug/l
1,3,5-Trimethylbenzene	1.0	5	ug/l
4-Chlorotoluene	1.0	5	ug/l
tert-Butylbenzene	1.0	5	ug/l
1,2,4-Trimethylbenzene	1.0	5	ug/l
sec-Butylbenzene	1.0	5	ug/l
p-Isopropyltoluene	1.0	5	ug/l
1,3-Dichlorobenzene	1.0	5	ug/l
1,4-Dichlorobenzene	1.0	5	ug/l
n-Butylbenzene	1.0	5	ug/l
1,2-Dichlorobenzene	1.0	5	ug/l
1,2,4-Trichlorobenzene	1.0	5	ug/l
Hexachlorobutadiene	2	5	ug/l
Naphthalene	1.0	5	ug/l
1,2,3-Trichlorobenzene	1.0	5	ug/l
1,2,3-Trimethylbenzene	1.0	5	ug/l
2-Chloroethyl Vinyl Ether	2	10	ug/l
1,3,5-Trichlorobenzene	1.0	5	ug/l

PTL05 0052

PATE1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932500

File: /chem/HP09915.i/10mar23a.b/lm23s01.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PATE1;5932500;1;0;:::;

Batch:L100821AA

Matrix: WATER

Injected At:23-MAR-2010 11:39

Analyst:LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.i

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.777(-0.003)	683	65	206368(20)	250.00	
72) Fluorobenzene	7.266(-0.006)	1768	96	1087711(3)	50.00	
104) Chlorobenzene-d5	10.845(0.000)	2881	117	785573(4)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	429849(-1)	50.00	

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.334(-0.001)	113	271670	50.981	102%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.793(0.001)	102	61189	49.777	100%		77 - 113
90) Toluene-d8	(2)	9.340(0.000)	98	1033062	49.545	99%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.857(0.000)	95	383159	49.269	99%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* = PERCENT REC.OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
20) Acetone	(1)	3.221(0.000)	43	43846	14.193	14.19		J	6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
47) 2-Butanone	(1)				ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
50) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)	6.115(-0.001)	83	29299	2.616	2.62		J	0.80	5.00
56) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 1 of 3

PTL05 0853

PATE1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932500

File: /chem/HP09915.i/10mar23a.b/lm23s01.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PATE1;5932500;1;0; ; ; ; ;

Batch: L100821AA

Matrix: WATER

Injected At: 23-MAR-2010 11:39

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID: HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor: 1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
101) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
107) Ethylbenzene	(2)					ND	ND			0.80	5.00
108) m+p-Xylene	(2)					ND	ND			0.80	5.00
110) o-Xylene	(2)					ND	ND			0.80	5.00
111) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
114) Isopropylbenzene	(2)					ND	ND			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL85 8854

PATE1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5932500

File: /chem/HP09915.i/10mar23a.b/lm23s01.d

Sample: PATE1;5932500;1;0; ; ; ; ; ; ;

Injected At: 23-MAR-2010 11:39

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID: HP09915.i

Standard Reference: lm23c01.d

Prep Factor: 1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code: 38A

Target Compounds	I.S.		RT (+/-RRT)	QIon	Area	Conc.	Conc.	Blank	Reporting		
	Ref.					(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====		=====	=====	=====	=====	=====	=====	=====	=====	=====
128) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
129) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
131) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
139) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
144) n-Butylbenzene	(3)					ND	ND			1.00	5.00
145) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
149) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
150) Naphthalene	(3)					ND	ND			1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

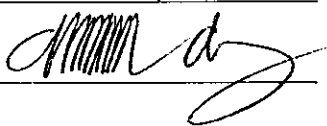
E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: _____

Auditor: _____

YCP891



Date: 3-23-10

Date: 3/28/10

Date : 23-MAR-2010 11:39

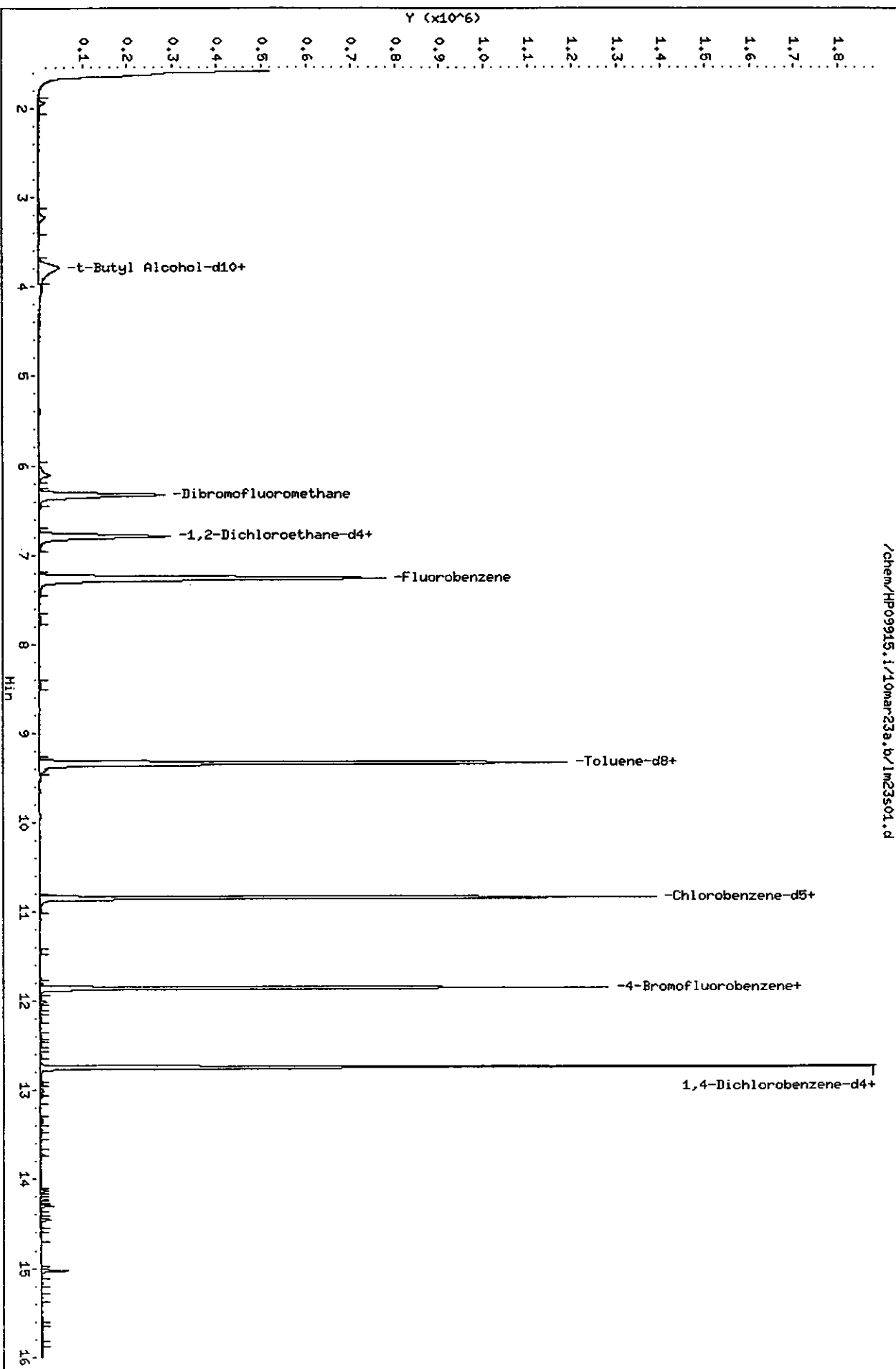
Sample Info: PATE1;5932500;1;0;;;

Purge Volume: 5.0

Column phase: DB-624

Operator: LCP00895

Column diameter: 0.25



PTL03 0056

ପୃଷ୍ଠା ୧

3-83-11

Quant Report

Target Revision 3.5

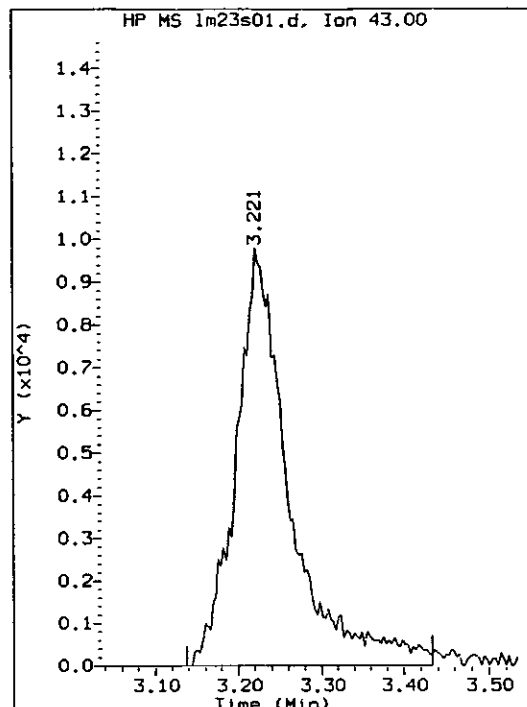
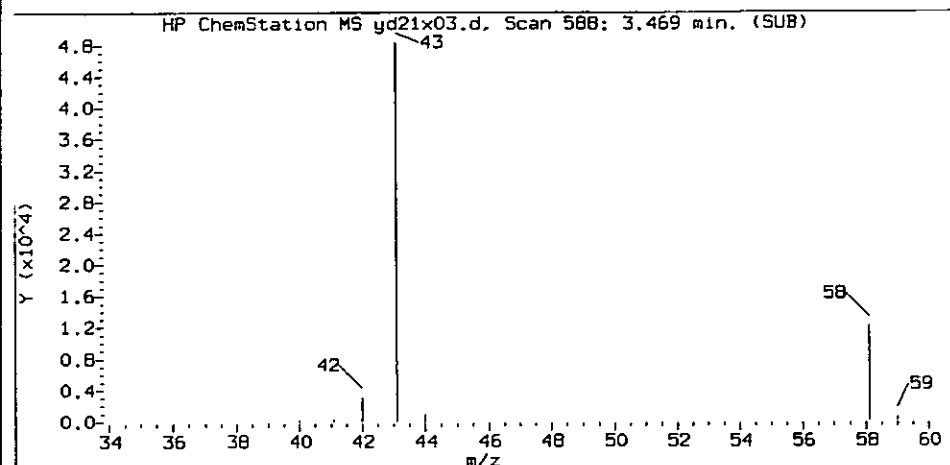
Data File: /chem/HP09915.i/10mar23a.b/lm23s01.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 11:39 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 14:28 lcp00895
Sample Name: PATE1 Lab Sample ID: 5932500

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
20) Acetone	(1)	3.221	43	43846	14.193
30)*t-Butyl Alcohol-d10	(4)	3.777	65	206368	250.000
53) Chloroform	(1)	6.115	83	29299	2.616
72)*Fluorobenzene	(1)	7.266	96	1087711	50.000
104)*Chlorobenzene-d5	(2)	10.845	117	785573	50.000
138)*1,4-Dichlorobenzene-d4	(3)	12.745	152	429849	50.000
54)\$Dibromofluoromethane	(1)	6.334	113	271670	50.981
64)\$1,2-Dichloroethane-d4	(1)	6.793	102	61189	49.777
90)\$Toluene-d8	(2)	9.340	98	1033062	49.545
119)\$4-Bromofluorobenzene	(2)	11.857	95	383159	49.269

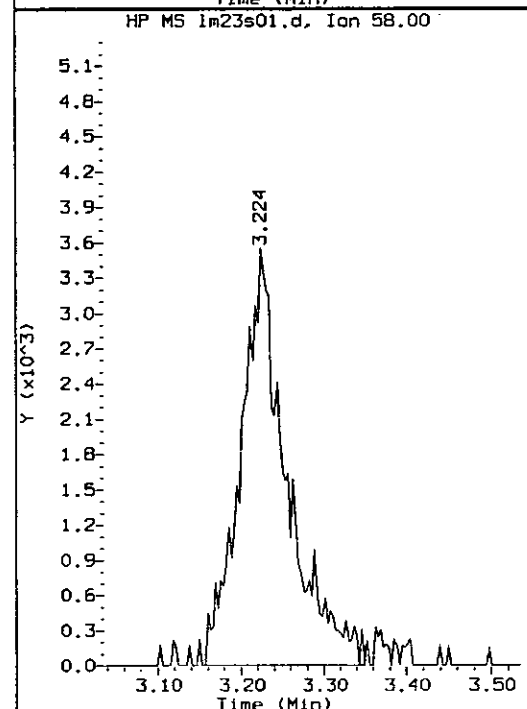
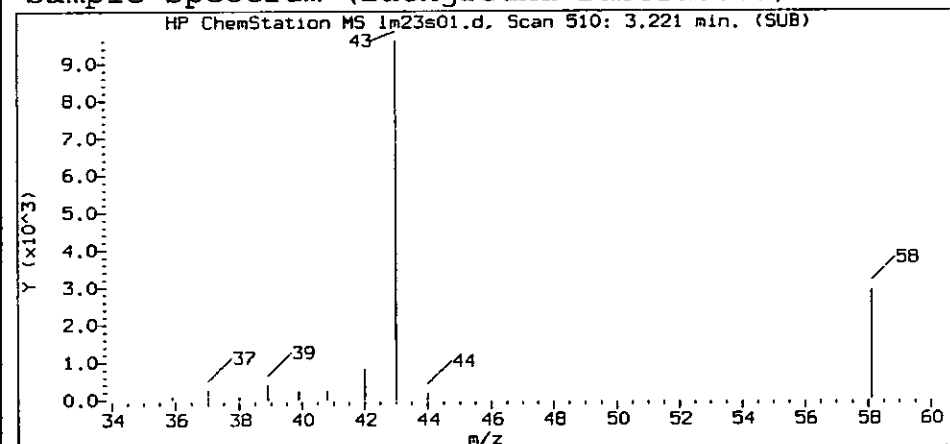
* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

PTL05: 8857

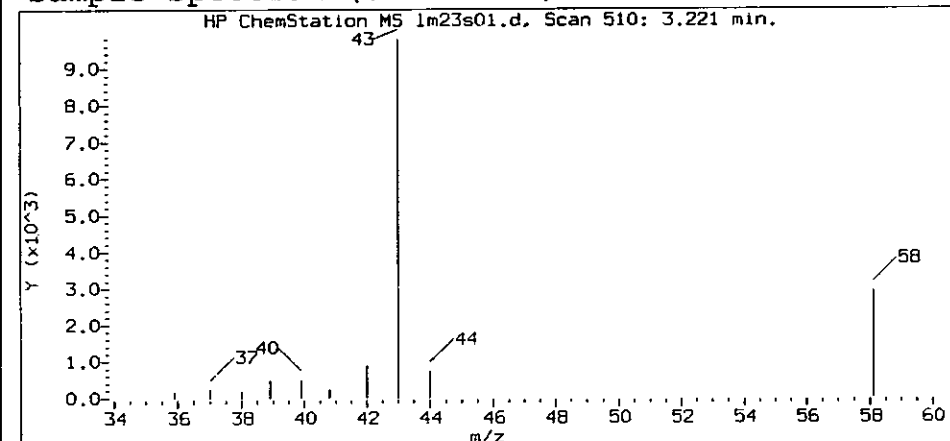
Reference Standard Spectrum for Acetone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/1m23s01.d
Injection date and time: 23-MAR-2010 11:39

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m
Calibration date and time: 23-MAR-2010 13:39

Sublist used: MWH

Date, time and analyst ID of latest file update: 23-Mar-2010 14:28 lcp00895

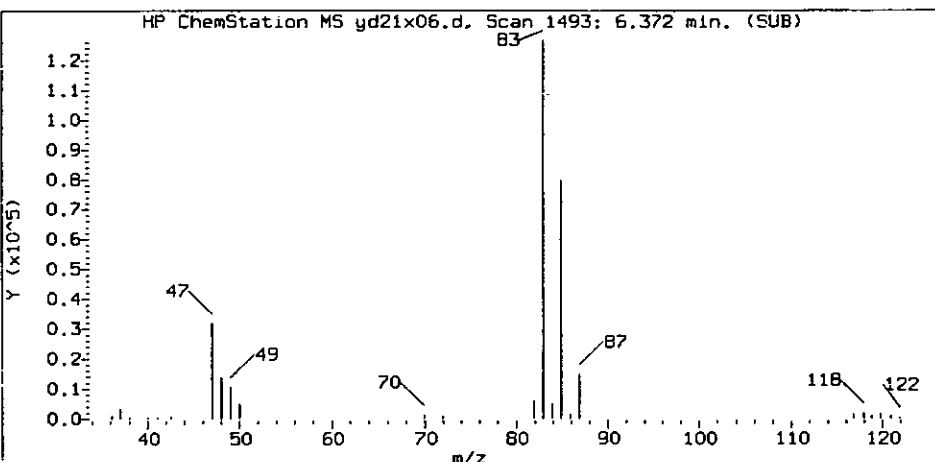
Sample Name: PATE1

Lab Sample ID: 5932500

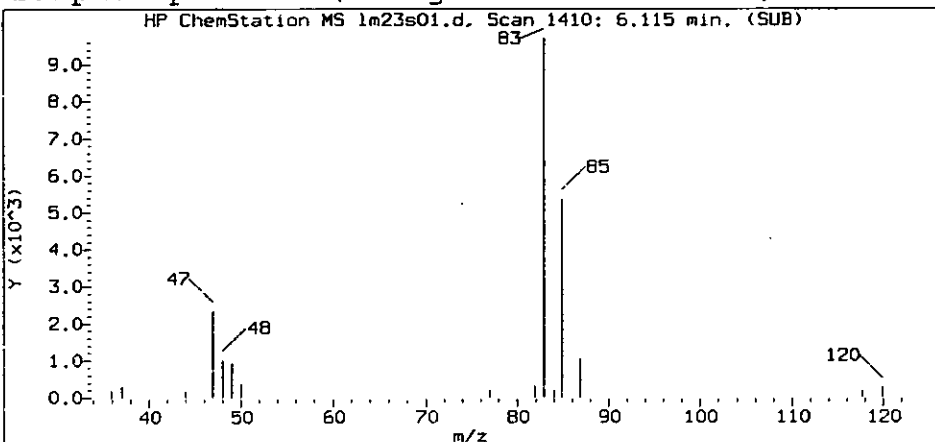
Compound Number : 20
Compound Name : Acetone
Scan Number : 510
Retention Time (minutes) : 3.221
Quant Ion : 43.0
Area (flag) : 43846
Concentration (ug/L) : 14.1926

PTL05 0058

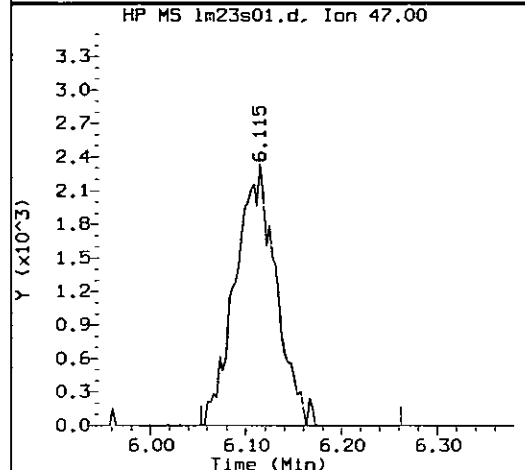
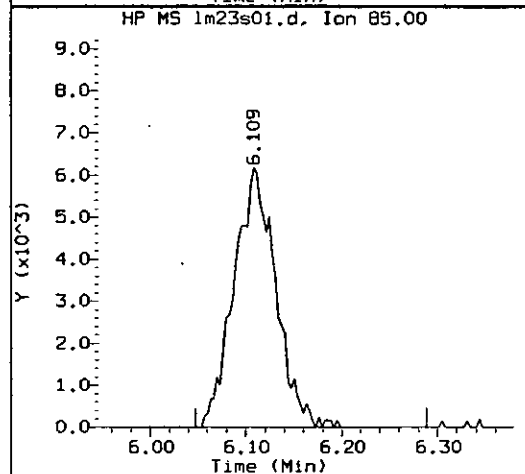
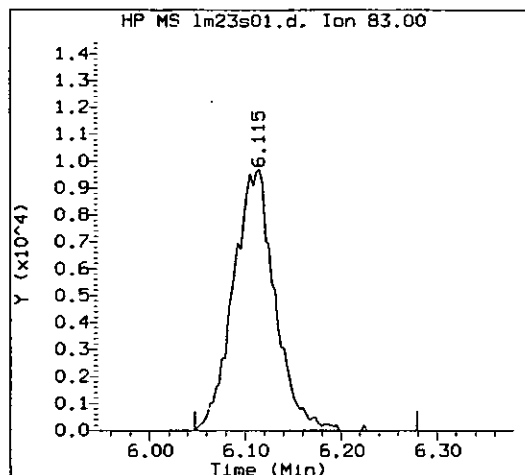
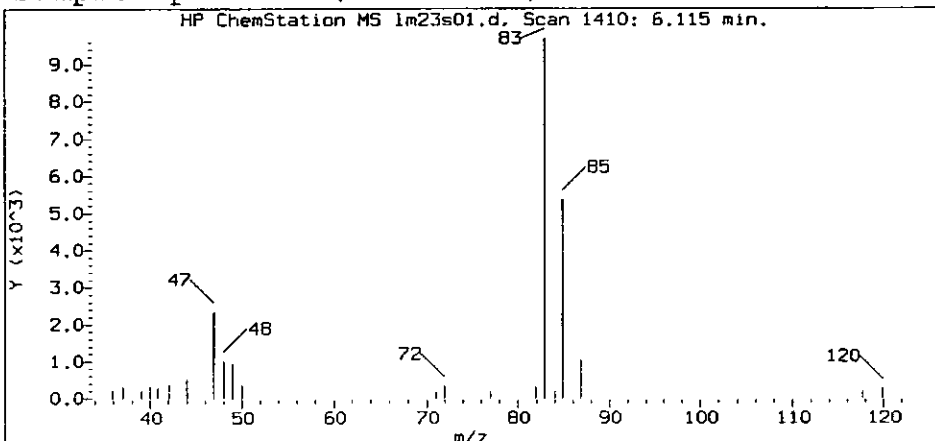
Reference Standard Spectrum for Chloroform



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s01.d
Injection date and time: 23-MAR-2010 11:39

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 14:28 lcp00895

Sample Name: PATE1

Lab Sample ID: 5932500

Compound Number : 53
Compound Name : Chloroform
Scan Number : 1410
Retention Time (minutes) : 6.115
Quant Ion : 83.0
Area (flag) : 29299
Concentration (ug/L) : 2.6161

FTL05 8059

5932501

Bottle Code:38A

5932501

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Matrix: WATER

Analyst: LCP00895

Level: Low

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Standard Reference: 1m23c01.d

Volume Purged: 5.0 ml (Vt)

Prep Factor:1.00

Bottle Code: 38A

Units: ug/L

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====											
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
101) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
107) Ethylbenzene	(2)					ND	ND			0.80	5.00
108) m+p-Xylene	(2)					ND	ND			0.80	5.00
110) o-Xylene	(2)					ND	ND			0.80	5.00
111) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
114) Isopropylbenzene	(2)					ND	ND			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL65 0001

File: /chem/HP09915.i/10mar23a.b/lm23s09.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PATP7;5932501;1;0;;;;;

Batch: L100821AA

Matrix: WATER

Injected At:23-MAR-2010 14:34

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: 1m23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: 1m23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Target Compounds	I.S.	RT (+/-RRT)	QIon	Area	Conc.	Conc.	Blank	Reporting		
	Ref.				(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====					=====	=====	=====	=====	=====	
128) 1,3,5-Trimethylbenzene	(3)				ND	ND			1.00	5.00
129) 4-Chlorotoluene	(3)				ND	ND			1.00	5.00
131) tert-Butylbenzene	(3)				ND	ND			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)				ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)				ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)				ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)				ND	ND			1.00	5.00
139) 1,4-Dichlorobenzene	(3)				ND	ND			1.00	5.00
144) n-Butylbenzene	(3)				ND	ND			1.00	5.00
145) 1,2-Dichlorobenzene	(3)				ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)				ND	ND			2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)				ND	ND			1.00	5.00
149) Hexachlorobutadiene	(3)				ND	ND			2.00	5.00
150) Naphthalene	(3)				ND	ND			1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: W. J. [Signature] Date: 3/25/50

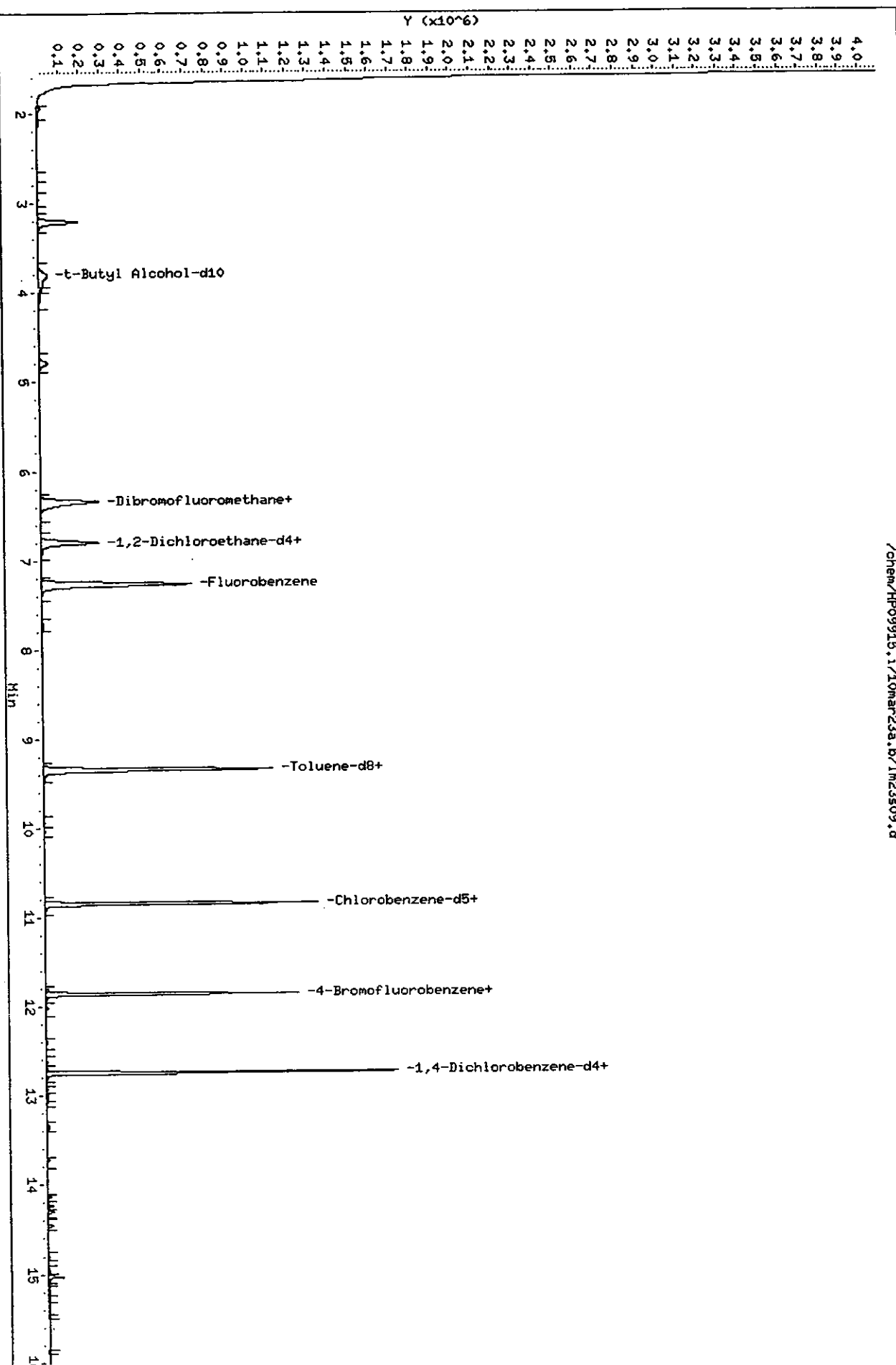
Auditor: _____ Date: _____

Column phase: DB-624

Column diameter: 0.25

APR 25 12 30 PM

Page 1



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s09.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 14:34 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 15:46 kdp02245

Sample Name: PATP7

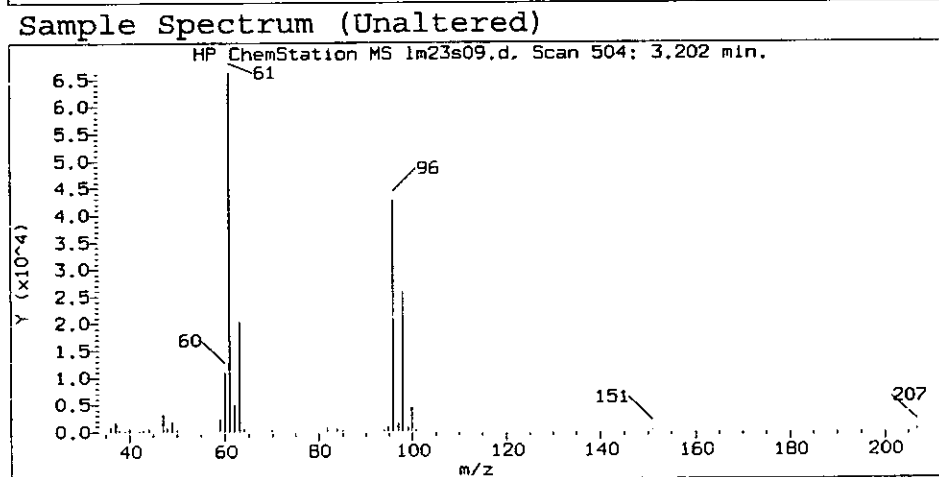
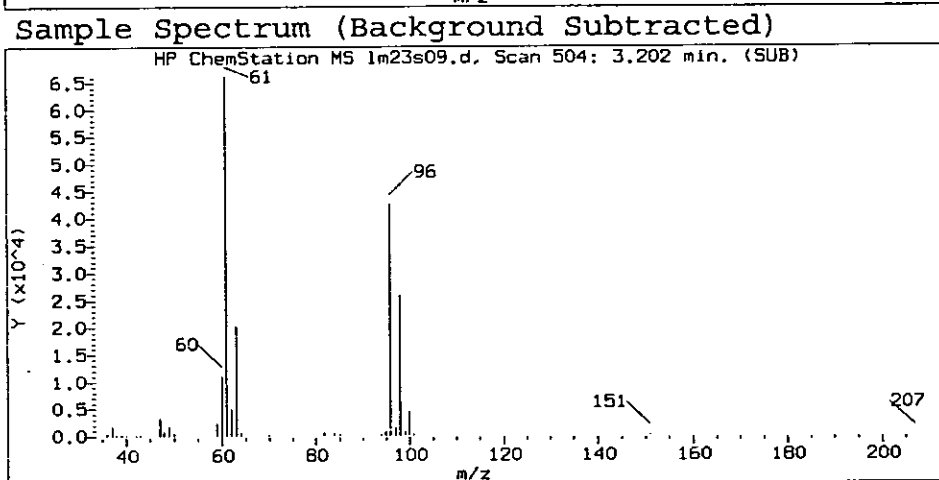
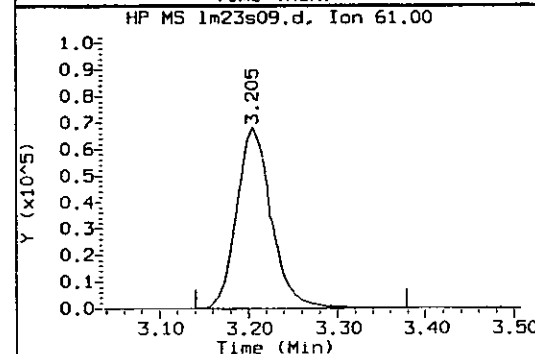
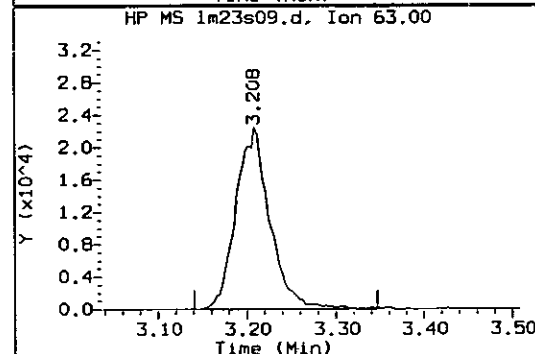
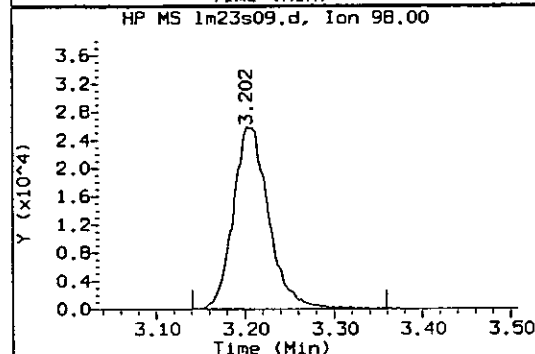
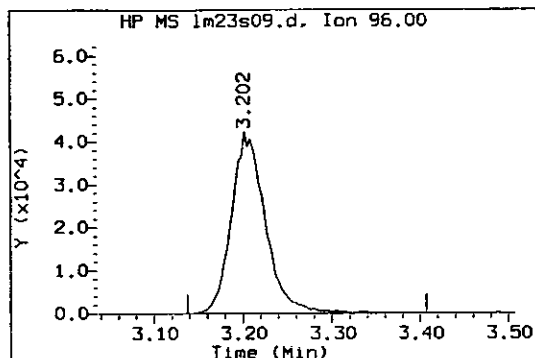
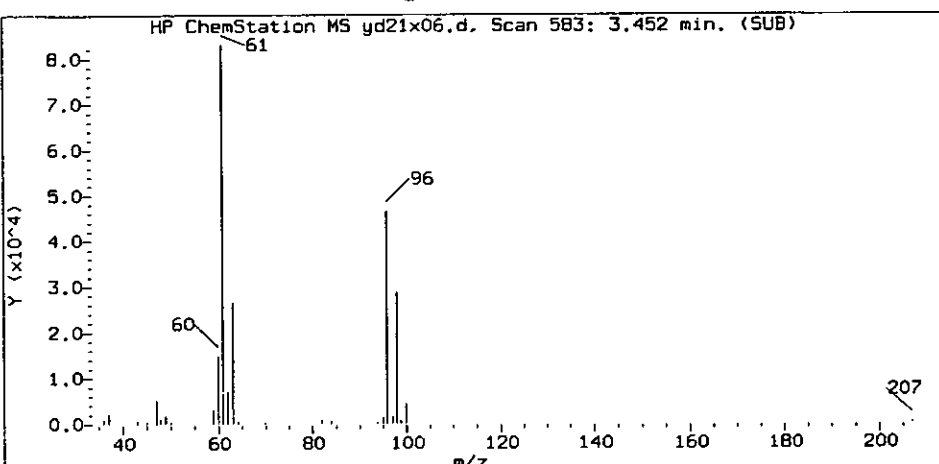
Lab Sample ID: 5932501

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
17) 1,1-Dichloroethene	(1)	3.202	96	112404	22.313
30) *t-Butyl Alcohol-d10	(4)	3.803	65	202507	250.000
37) 1,1-Dichloroethane	(1)	4.787	63	72611	6.608
56) 1,1,1-Trichloroethane	(1)	6.379	97	72840	7.301
72) *Fluorobenzene	(1)	7.269	96	1030991	50.000
104) *Chlorobenzene-d5	(2)	10.845	117	739291	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	397439	50.000
54) \$Dibromofluoromethane	(1)	6.337	113	257243	50.929
64) \$1,2-Dichloroethane-d4	(1)	6.803	102	58578	50.274
90) \$Toluene-d8	(2)	9.343	98	978325	49.857
119) \$4-Bromofluorobenzene	(2)	11.858	95	361631	49.412

* = Compound is an internal standard.

\$ = Compound is a surrogate standard.

Reference Standard Spectrum for 1,1-Dichloroethene



Data File: /chem/HP09915.i/10mar23a.b/lm23s09.d
Injection date and time: 23-MAR-2010 14:34

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 15:46 kdp02245

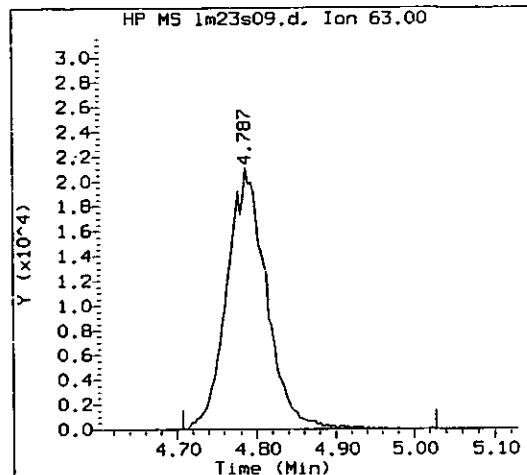
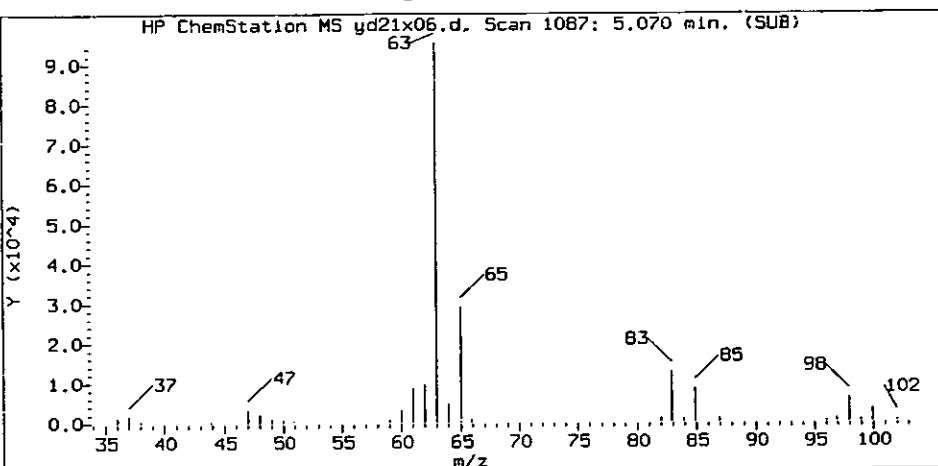
Sample Name: PATP7

Lab Sample ID: 5932501

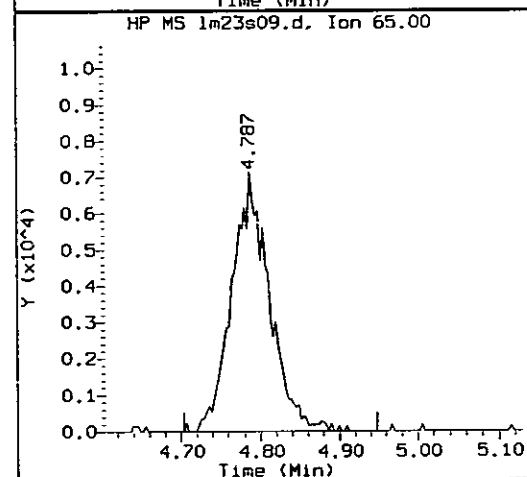
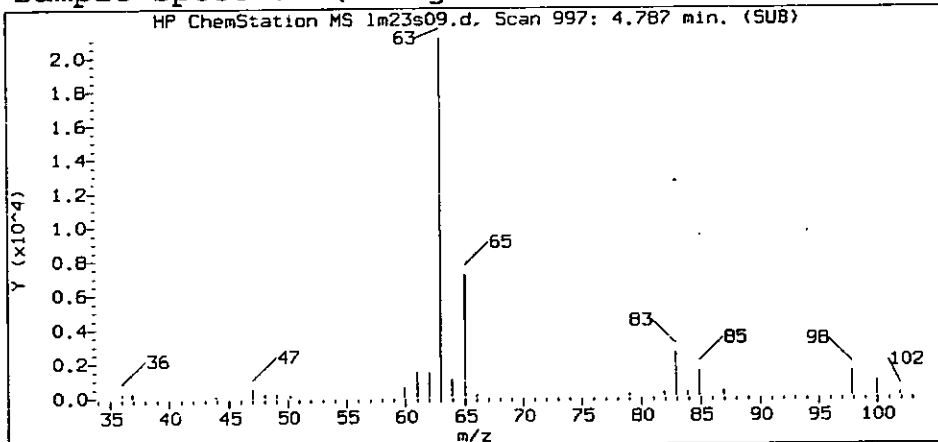
Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 504
Retention Time (minutes) : 3.202
Quant Ion : 96.0
Area (flag) : 112404
Concentration (ug/L) : 22.3129

PTL05 0065

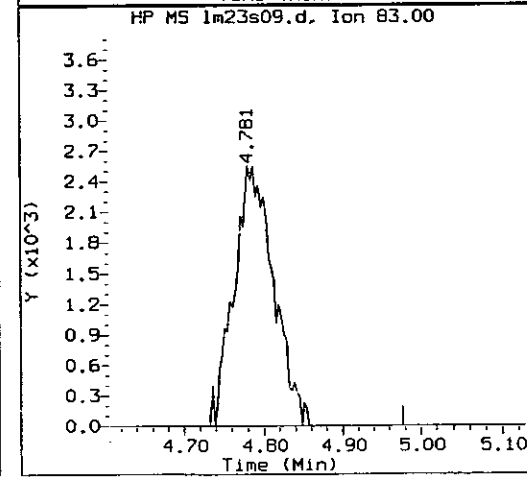
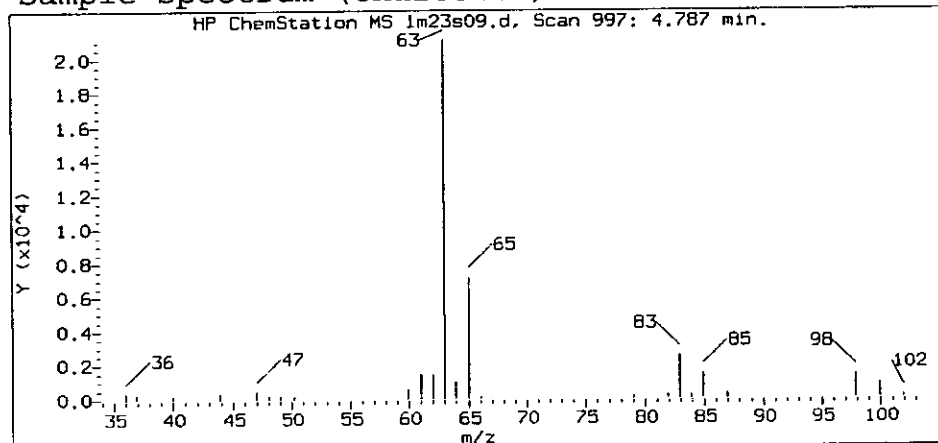
Reference Standard Spectrum for 1,1-Dichloroethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s09.d
Injection date and time: 23-MAR-2010 14:34

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 15:46 kdp02245

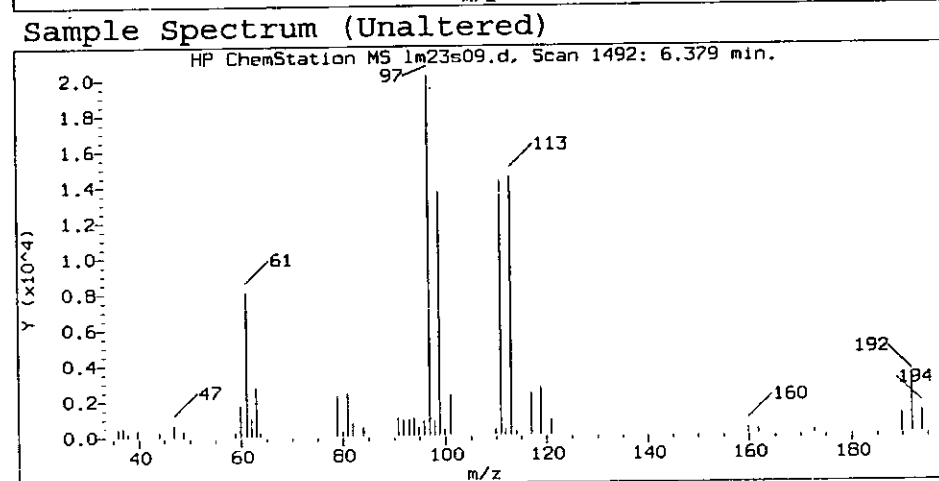
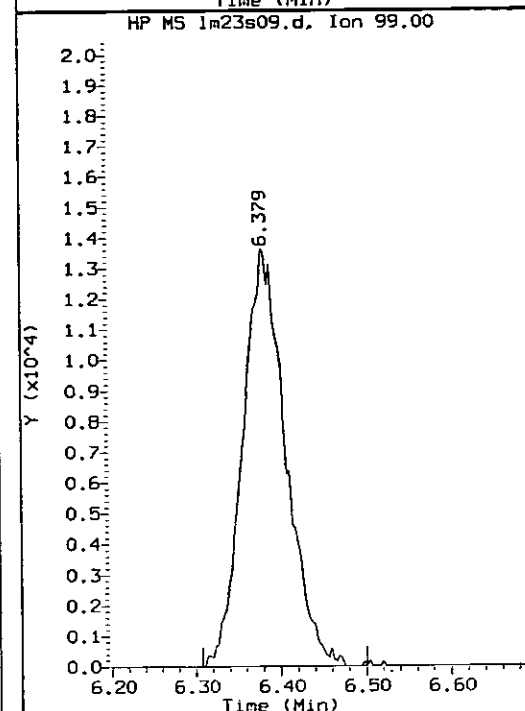
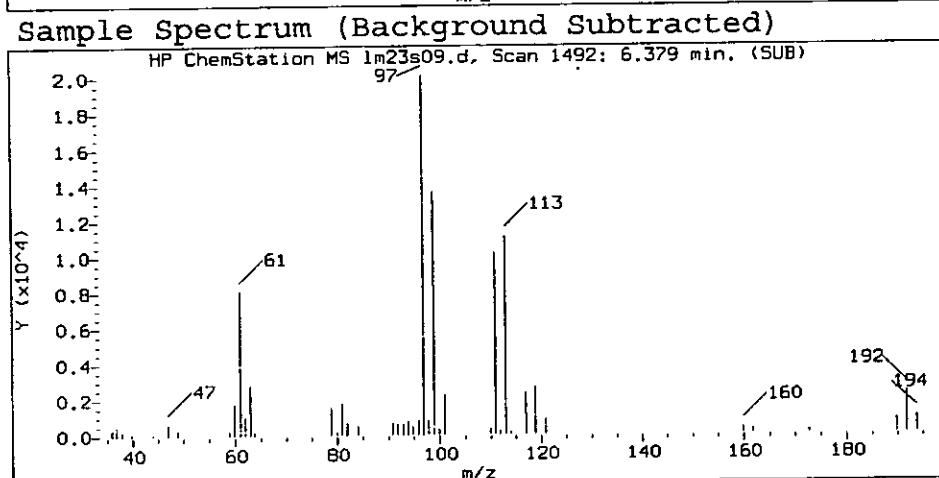
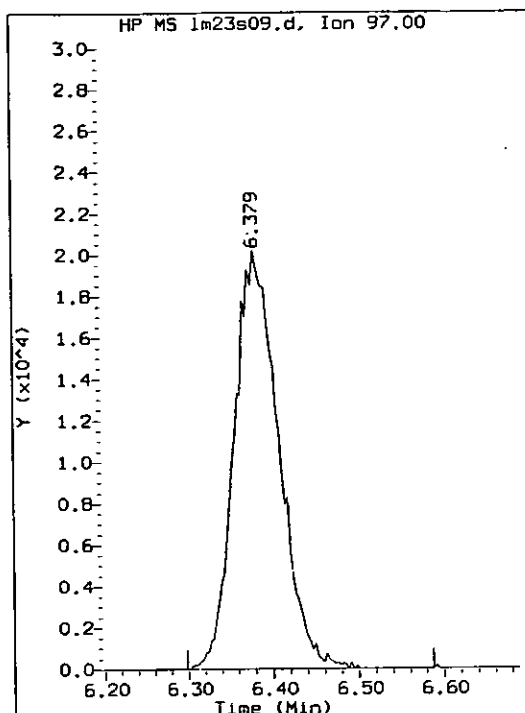
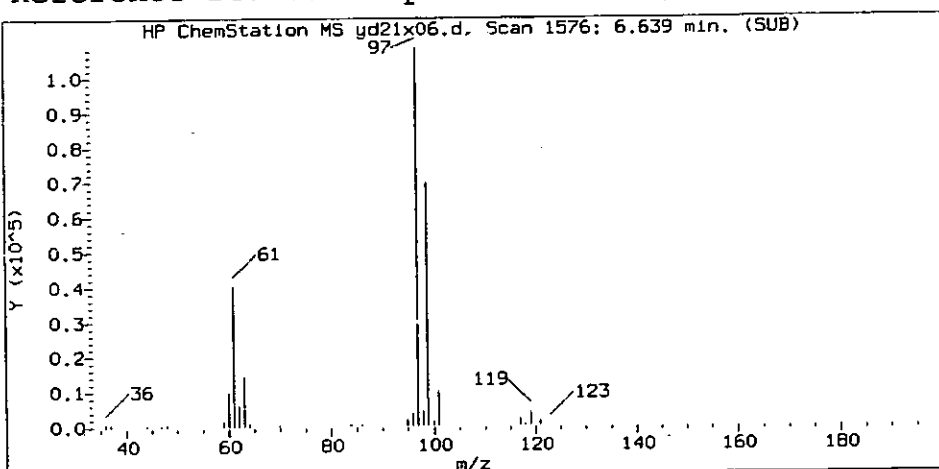
Sample Name: PATP7

Lab Sample ID: 5932501

Compound Number : 37
Compound Name : 1,1-Dichloroethane
Scan Number : 997
Retention Time (minutes) : 4.787
Quant Ion : 63.0
Area (flag) : 72611
Concentration (ug/L) : 6.6078

PTL05 0066

Reference Standard Spectrum for 1,1,1-Trichloroethane



Data File: /chem/HP09915.i/10mar23a.b/1m23s09.d
Injection date and time: 23-MAR-2010 14:34

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 15:46 kdp02245

Sample Name: PATP7

Lab Sample ID: 5932501

Compound Number : 56
Compound Name : 1,1,1-Trichloroethane
Scan Number : 1492
Retention Time (minutes) : 6.379
Quant Ion : 97.0
Area (flag) : 72840
Concentration (ug/L) : 7.3006

PTL05 0067

5932502

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Matrix: WATER

Analyst: LCP00895

Level: Low

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Prep Factor:1.00

Bottle Code: 38A

Units: ug/L

Internal Standards	RT(+/-RT)	Scan	QIon	Area (+/- %Area)	Conc(ext)	QC Flag
=====	=====	====	====	=====	=====	=====
30) t-Butyl Alcohol-d10	3.784 (-0.010)	685	65	196277 (15)	250.00	
72) Fluorobenzene	7.263 (-0.003)	1767	96	1073860 (2)	50.00	
104) Chlorobenzene-d5	10.845 (0.000)	2881	117	765644 (1)	50.00	
138) 1,4-Dichlorobenzene-d4	12.742 (0.003)	3471	152	407285 (-6)	50.00	

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S.			QIon	Area	Conc.	%Rec.	QC	QC Limits
	Ref.	RT	(+/-RRT)			(on column)		flags	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
54) Dibromofluoromethane	(1)	6.330	(0.000)	113	263640	50.112	100%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.793	(0.000)	102	61055	50.309	101%		77 - 113
90) Toluene-d8	(2)	9.340	(0.000)	98	1011880	49.792	100%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.857	(0.000)	95	372384	49.130	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* = PERCENT REC. OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting		
	Ref.	RT (+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====		=====	=====	=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)	3.202 (-0.002)	96	7444	1.419	1.42	J		0.80	5.00
20) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
47) 2-Butanone	(1)				ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
50) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
56) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

PAT7A

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932502

File: /chem/HP09915.i/10mar23a.b/lm23s10.d

Sample: PAT7A;5932502;1;0;:::;

Injected At: 23-MAR-2010 14:56

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID: HP09915.i

Standard Reference: lm23c01.d

Prep Factor: 1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code: 38A

Target Compounds	I.S.		QIon	Area	Conc.	Conc.	Blank	Reporting	
	Ref.	RT (+/-RRT)			(on column)	(in sample)	Conc.	Qual.	Limit LOQ
80) Dibromomethane	(1)				ND	ND		1.00	5.00
84) Bromodichloromethane	(1)				ND	ND		1.00	5.00
87) cis-1,3-Dichloropropene	(1)				ND	ND		1.00	5.00
88) 4-Methyl-2-Pentanone	(1)				ND	ND		3.00	10.00
93) Toluene	(2)				ND	ND		0.70	5.00
94) trans-1,3-Dichloropropene	(2)				ND	ND		1.00	5.00
96) 1,1,2-Trichloroethane	(2)				ND	ND		0.80	5.00
97) Tetrachloroethene	(2)				ND	ND		0.80	5.00
98) 1,3-Dichloropropane	(2)				ND	ND		1.00	5.00
101) Dibromochloromethane	(2)				ND	ND		1.00	5.00
103) 1,2-Dibromoethane	(2)				ND	ND		1.00	5.00
105) Chlorobenzene	(2)				ND	ND		0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)				ND	ND		1.00	5.00
107) Ethylbenzene	(2)				ND	ND		0.80	5.00
108) m-p-Xylene	(2)				ND	ND		0.80	5.00
110) o-Xylene	(2)				ND	ND		0.80	5.00
111) Styrene	(2)				ND	ND		1.00	5.00
113) Bromoform	(2)				ND	ND		1.00	5.00
114) Isopropylbenzene	(2)				ND	ND		1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)				ND	ND		1.00	5.00
122) Bromobenzene	(3)				ND	ND		1.00	5.00
123) 1,2,3-Trichloropropane	(3)				ND	ND		1.00	5.00
125) n-Propylbenzene	(3)				ND	ND		1.00	5.00
127) 2-Chlorotoluene	(3)				ND	ND		1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL05 0069

Date : 23-MAR-2010 14:56

Client ID: PAT7A

Sample Info: PAT7A;5932502;1;0;;;

Purge Volume: 5.0

Column phase: DB-624

Instrument: HP09915.i

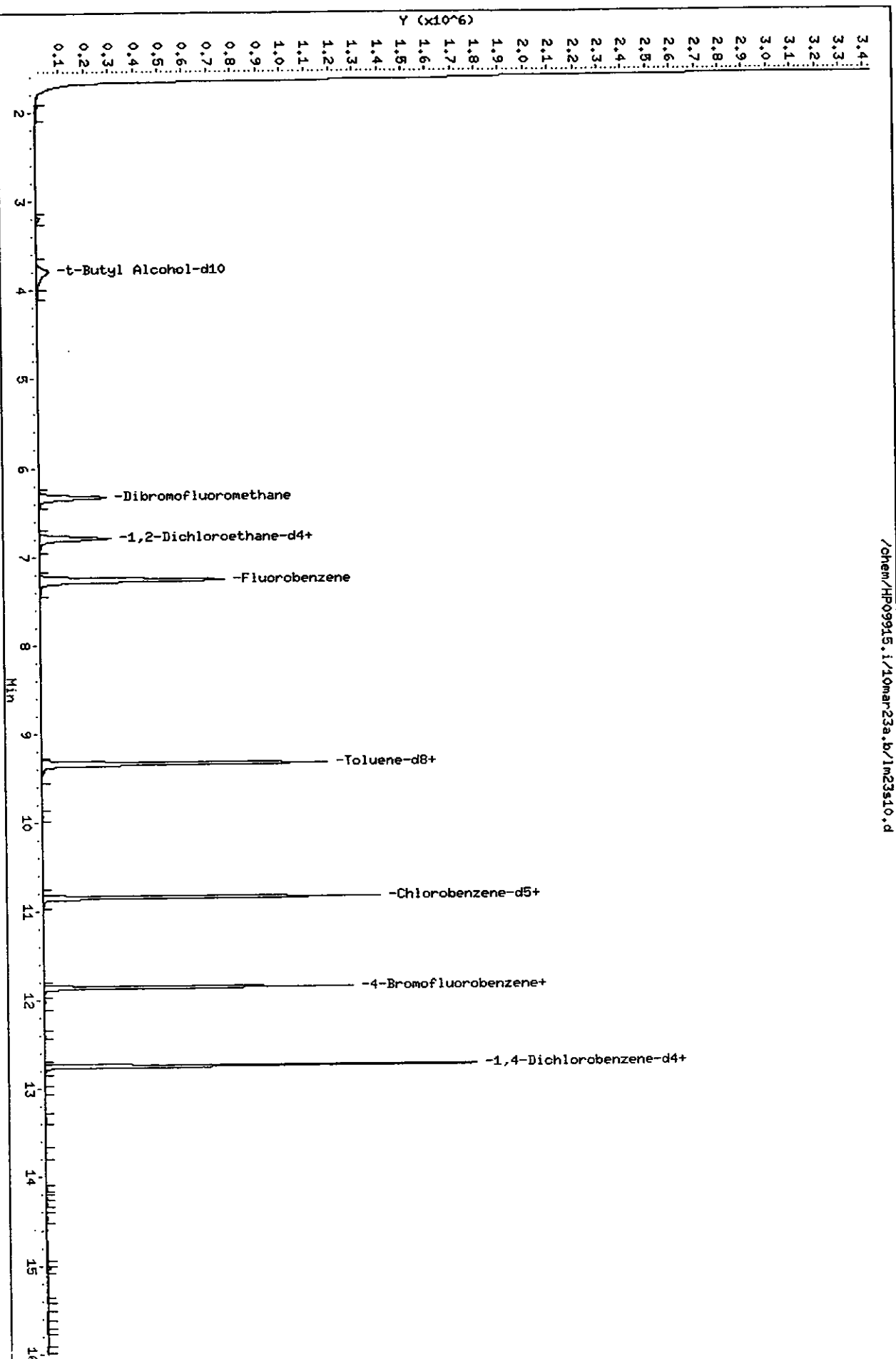
Operator: LCP00895

Column diameter: 0.25

3/23/65

PTL05: 0071

Page 1



Quant Report

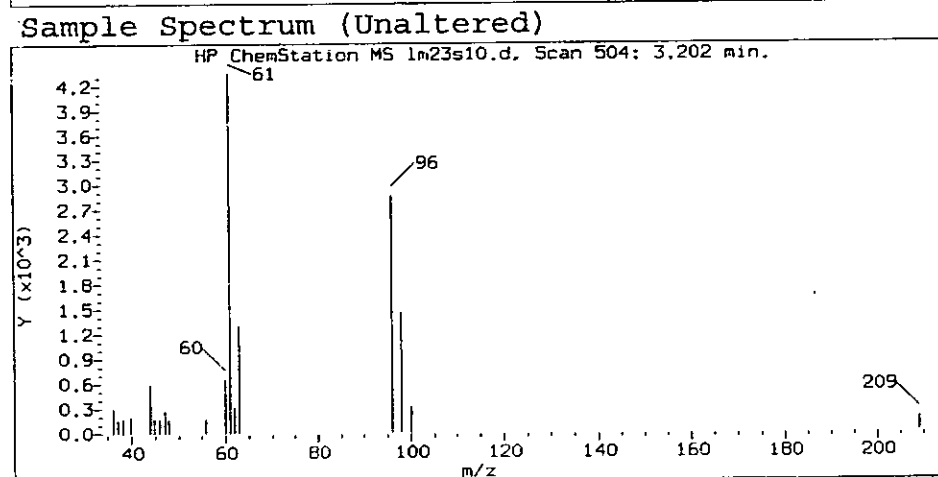
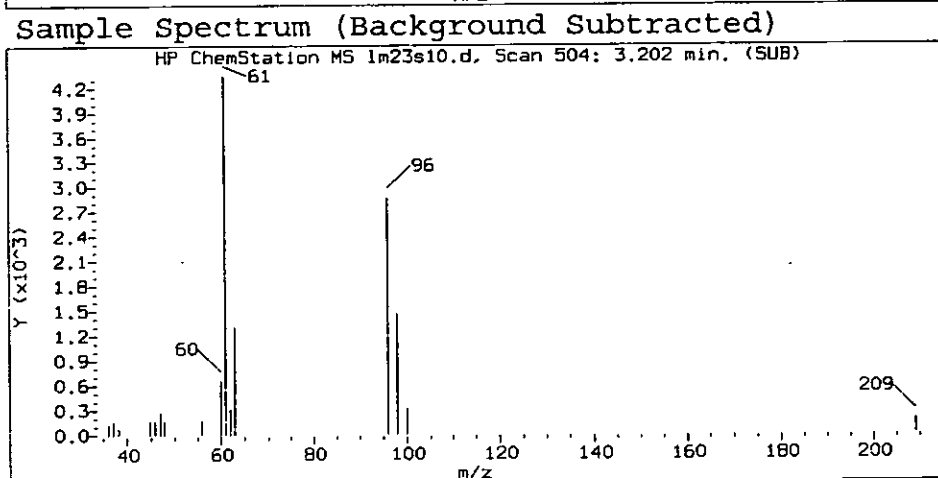
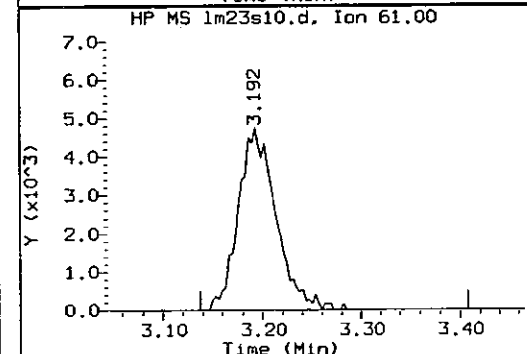
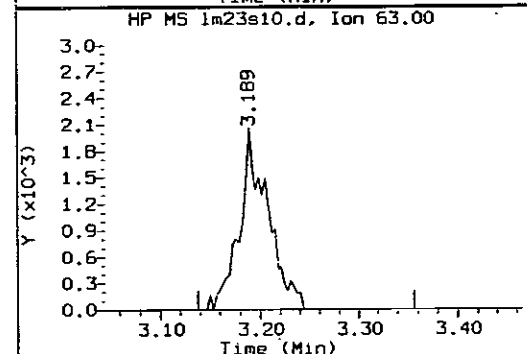
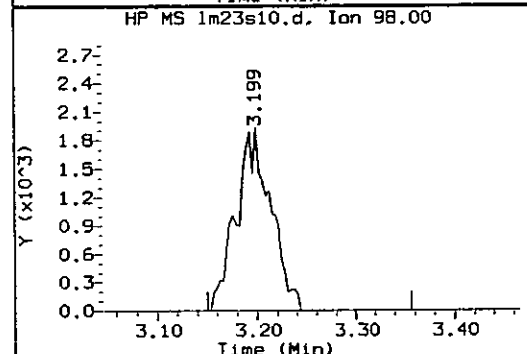
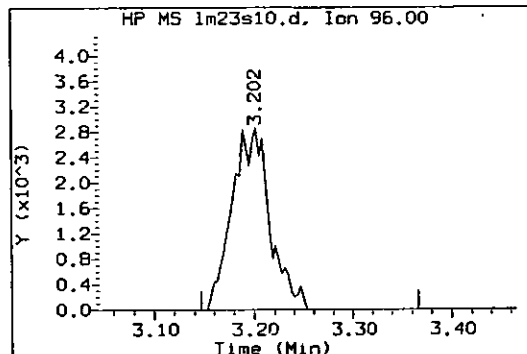
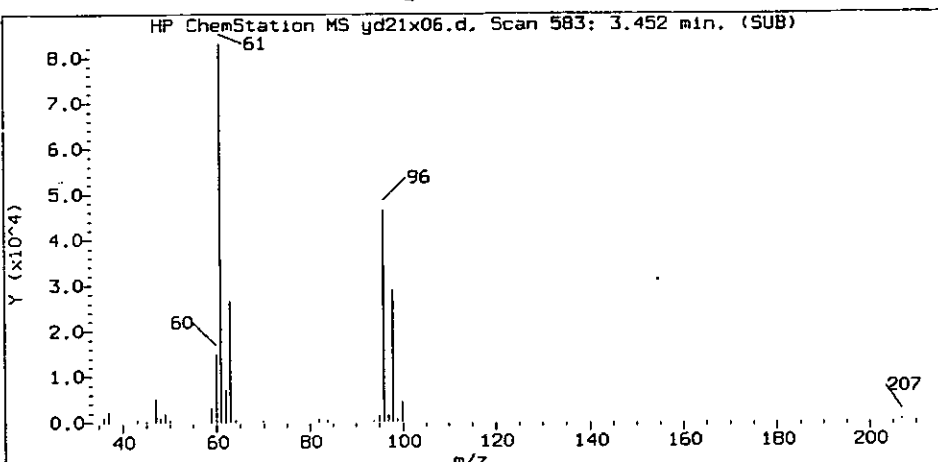
Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s10.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 14:56 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 15:14 Automation
Sample Name: PAT7A Lab Sample ID: 5932502

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
17) 1,1-Dichloroethene	(1)	3.202	96	7444	1.419
30) *t-Butyl Alcohol-d10	(4)	3.784	65	196277	250.000
72) *Fluorobenzene	(1)	7.263	96	1073860	50.000
104) *Chlorobenzene-d5	(2)	10.845	117	765644	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.742	152	407285	50.000
54) \$Dibromofluoromethane	(1)	6.330	113	263640	50.112
64) \$1,2-Dichloroethane-d4	(1)	6.793	102	61055	50.309
90) \$Toluene-d8	(2)	9.340	98	1011880	49.792
119) \$4-Bromofluorobenzene	(2)	11.857	95	372384	49.130

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

Reference Standard Spectrum for 1,1-Dichloroethene



Data File: /chem/HP09915.i/10mar23a.b/lm23s10.d
Injection date and time: 23-MAR-2010 14:56

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 15:14 Automation

Sample Name: PAT7A

Lab Sample ID: 5932502

Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 504
Retention Time (minutes): 3.202
Quant Ion : 96.0
Area (flag) : 7444
Concentration (ug/L) : 1.4188

PTL05 0073

5932503

Bottle Code: 38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
*****	*****	****	***	*****	*****	*****
30) t-Butyl Alcohol-d10	3.800(-0.026)	690	65	199698(17)	250.00	
72) Fluorobenzene	7.269(-0.010)	1769	96	1055953(0)	50.00	
104) Chlorobenzene-d5	10.848(-0.003)	2882	117	756930(0)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	407636(-6)	50.00	

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S.			QIon	Area	Conc.	%Rec.	QC	QC Limits
	Ref.	RT	(+/-RRT)			(on column)		flags	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
54) Dibromofluoromethane	(1)	6.334	(0.000)	113	259240	50.111	100%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.797	(0.001)	102	60080	50.344	101%		77 - 113
90) Toluene-d8	(2)	9.340	(0.000)	98	997784	49.664	99%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.858	(0.000)	95	369134	49.262	99%		78 - 113

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S.					Conc.	Conc.	Blank	Reporting		
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====			=====	=====	=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)					ND	ND			2.00	5.00
3) Chloromethane	(1)					ND	ND			1.00	5.00
4) Vinyl Chloride	(1)					ND	ND			1.00	5.00
7) Bromomethane	(1)					ND	ND			1.00	5.00
9) Chloroethane	(1)					ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)	2.671	(-0.001)	101	23242	2.349	2.35		J	2.00	5.00
17) 1,1-Dichloroethene	(1)	3.202	(-0.001)	96	4101684	794.964	794.96		E	0.80	5.00
20) Acetone	(1)					ND	ND			6.00	20.00
29) Methylene Chloride	(1)					ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)					ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)					ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)	4.787	(-0.002)	63	195752	17.393	17.39			1.00	5.00
44) cis-1,2-Dichloroethene	(1)					ND	ND			0.80	5.00
47) 2-Butanone	(1)					ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)					ND	ND			1.00	5.00
50) Bromochloromethane	(1)					ND	ND			1.00	5.00
53) Chloroform	(1)	6.121	(-0.002)	83	11724	1.078	1.08		J	0.80	5.00
56) 1,1,1-Trichloroethane	(1)					ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)					ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)					ND	ND			1.00	5.00
67) Benzene	(1)					ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)	6.906	(-0.001)	62	13216	1.465	1.46		J	1.00	5.00
76) Trichloroethene	(1)					ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)					ND	ND			1.00	5.00

= RELATIVE RETENTION TIME OUT OF RANGE

PAT10

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932503

File: /chem/HP09915.i/10mar23a.b/lm23s11.d
Sample: PAT10;5932503;1;0;:::
Injected At: 23-MAR-2010 15:18
Calibration Time: 17-FEB-2010 21:34
Target Method: L8260W.m
Blank Reference: lm23b02.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: L100821AA
Analyst: LCP00895
Instrument ID: HP09915.1
Standard Reference: lm23c01.d
Prep Factor: 1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code: 38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting	
									Qual.	Limit LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
80) Dibromomethane	(1)					ND	ND			1.00 5.00
84) Bromodichloromethane	(1)					ND	ND			1.00 5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00 5.00
88) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00 10.00
93) Toluene	(2)					ND	ND			0.70 5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00 5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80 5.00
97) Tetrachloroethene	(2)					ND	ND			0.80 5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00 5.00
101) Dibromochloromethane	(2)					ND	ND			1.00 5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00 5.00
105) Chlorobenzene	(2)					ND	ND			0.80 5.00
106) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00 5.00
107) Ethylbenzene	(2)					ND	ND			0.80 5.00
108) m-p-Xylene	(2)					ND	ND			0.80 5.00
110) o-Xylene	(2)					ND	ND			0.80 5.00
111) Styrene	(2)					ND	ND			1.00 5.00
113) Bromoform	(2)					ND	ND			1.00 5.00
114) Isopropylbenzene	(2)					ND	ND			1.00 5.00
121) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00 5.00
122) Bromobenzene	(3)					ND	ND			1.00 5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00 5.00
125) n-Propylbenzene	(3)					ND	ND			1.00 5.00
127) 2-Chlorotoluene	(3)					ND	ND			1.00 5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL05 0075

File: /chem/HP09915.i/10mar23a.b/lm23s11.d

Sample: PAT10;5932503;1;0;;;;

Injected At:23-MAR-2010 15:18

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: 1m23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID:HP09915.1

Standard Reference: 1m23c01.d

Prep Factor:1.00

Units: ug/L

Matrix: WATER

Level: Low

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code: 38A

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
128) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
129) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
131) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
139) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
144) n-Butylbenzene	(3)					ND	ND			1.00	5.00
145) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
149) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
150) Naphthalene	(3)					ND	ND			1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

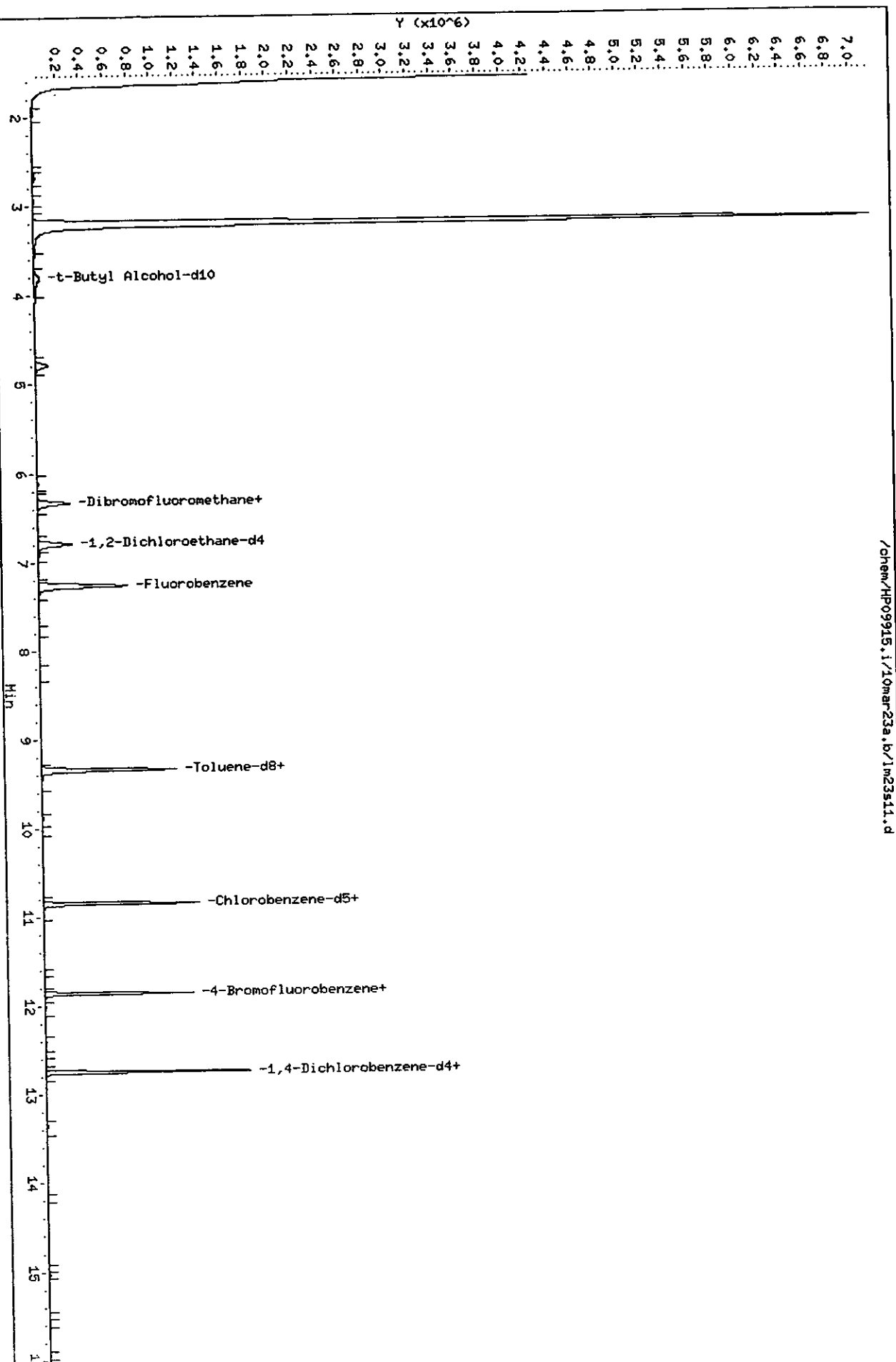
Analyst: _____ Date: 12/10/00

Auditor: _____ Date: 9/2

Column phase: DB-624

Column diameter: 0.25

Page 1



Quant Report

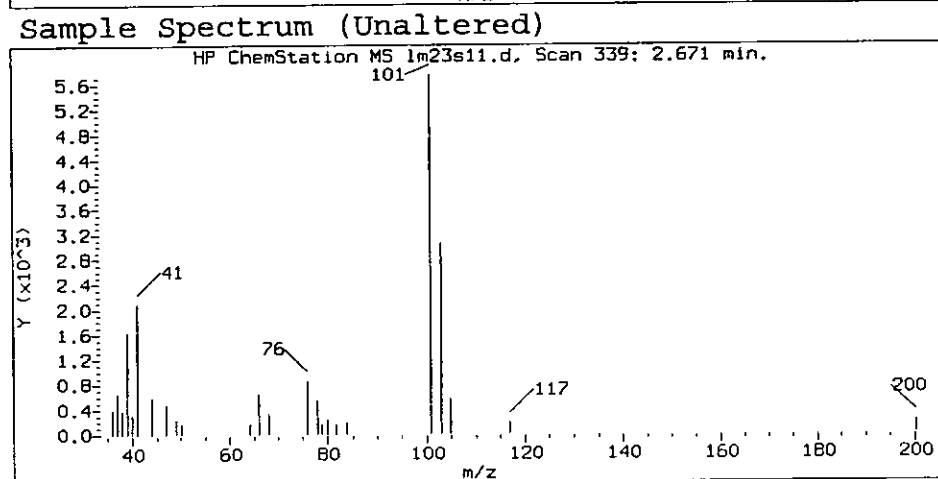
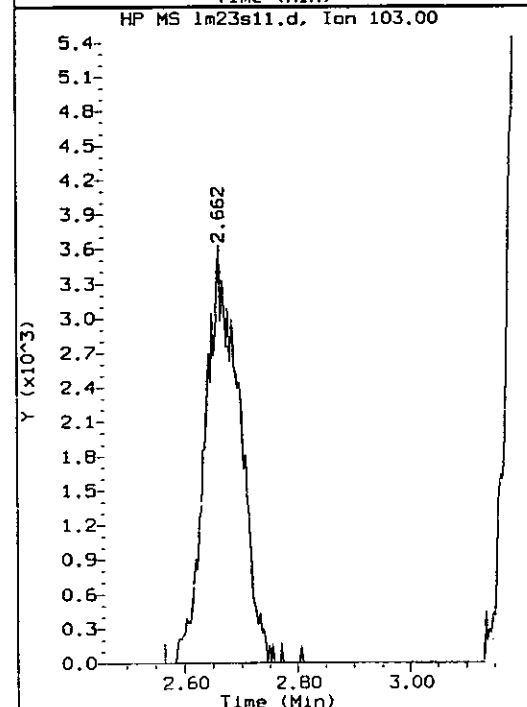
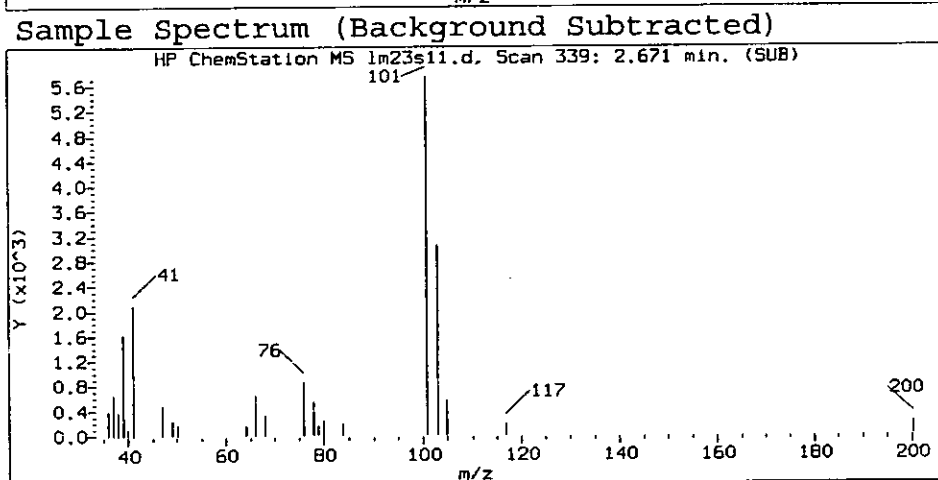
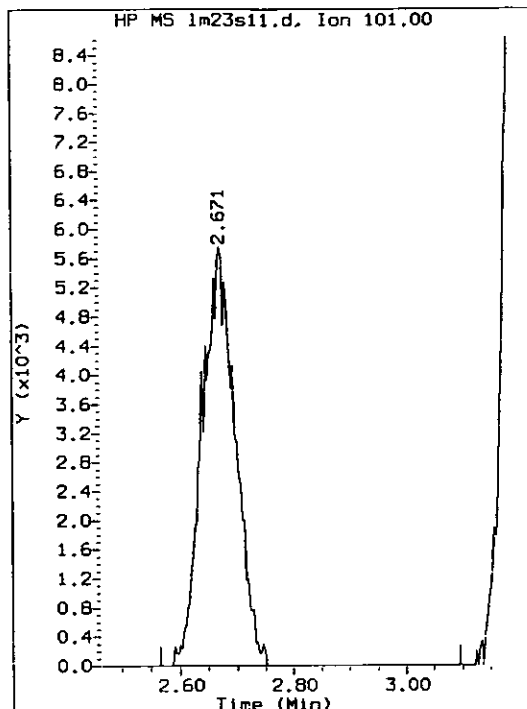
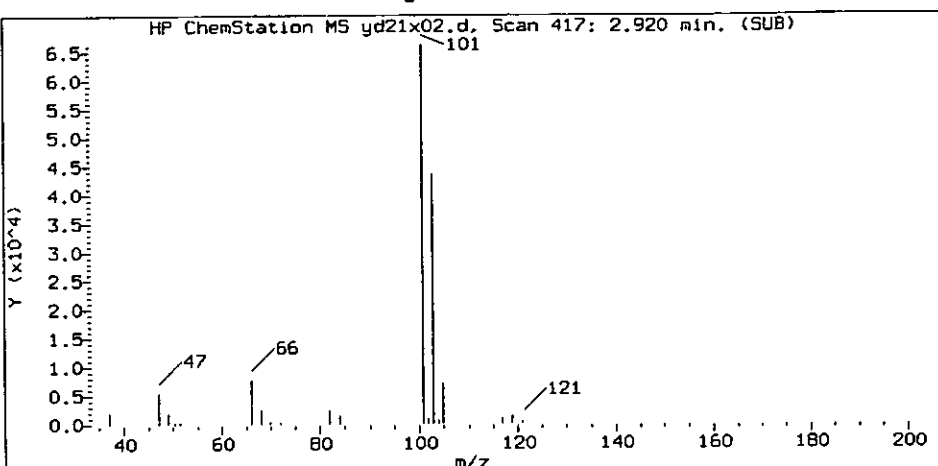
Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s11.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 15:18 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 15:49 kdp02245
Sample Name: PAT10 Lab Sample ID: 5932503

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
11) Trichlorofluoromethane	(1)	2.671	101	23242	2.349
17) 1,1-Dichloroethene	(1)	3.202	96	4101684	794.964
30) *t-Butyl Alcohol-d10	(4)	3.800	65	199698	250.000
37) 1,1-Dichloroethane	(1)	4.787	63	195752	17.393
53) Chloroform	(1)	6.121	83	11724	1.078
68) 1,2-Dichloroethane	(1)	6.906	62	13216	1.465
72) *Fluorobenzene	(1)	7.269	96	1055953	50.000
104) *Chlorobenzene-d5	(2)	10.848	117	756930	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	407636	50.000
54) \$Dibromofluoromethane	(1)	6.334	113	259240	50.111
64) \$1,2-Dichloroethane-d4	(1)	6.797	102	60080	50.344
90) \$Toluene-d8	(2)	9.340	98	997784	49.664
119) \$4-Bromofluorobenzene	(2)	11.858	95	369134	49.262

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

Reference Standard Spectrum for Trichlorofluoromethane

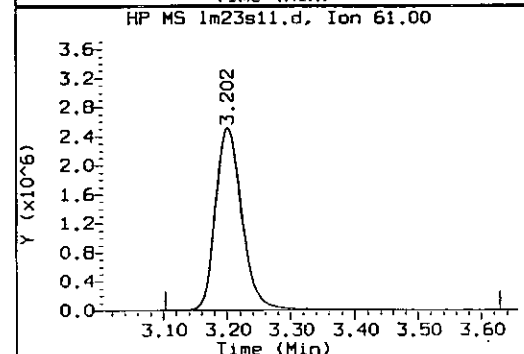
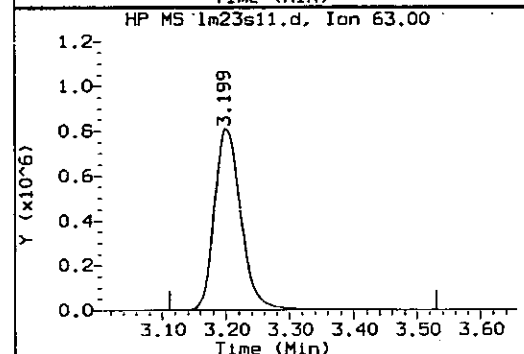
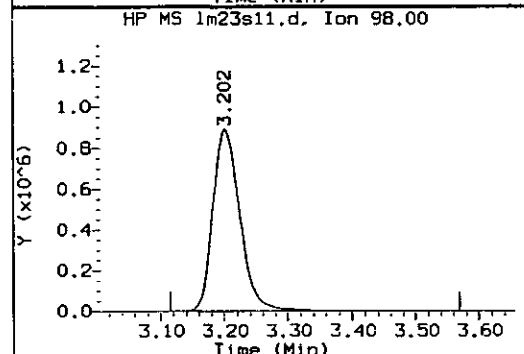
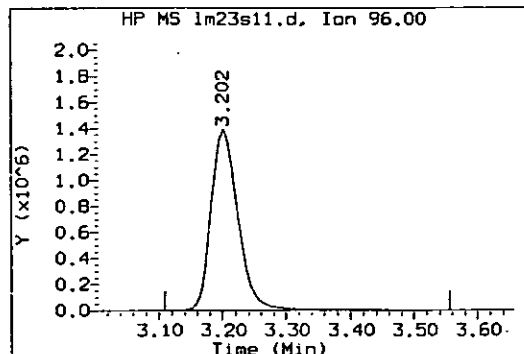
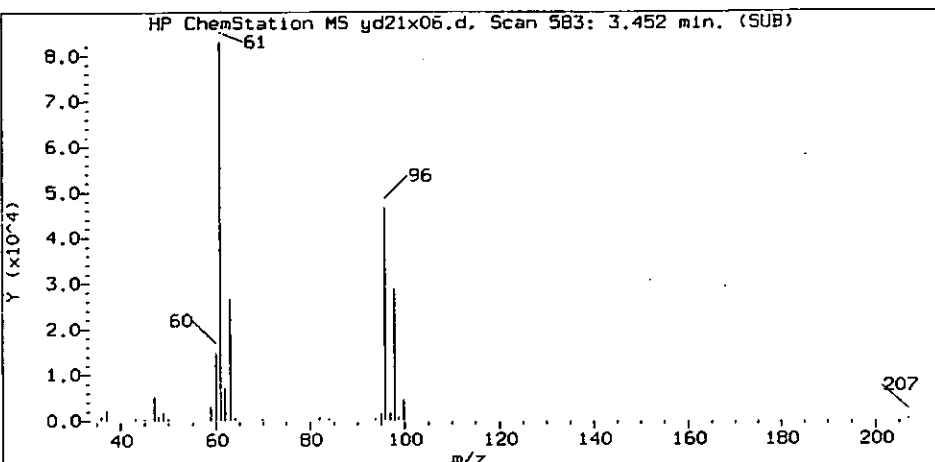


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Injection date and time: 23-MAR-2010 15:18 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 15:49 kdp02245
Sample Name: PAT10 Lab Sample ID: 5932503

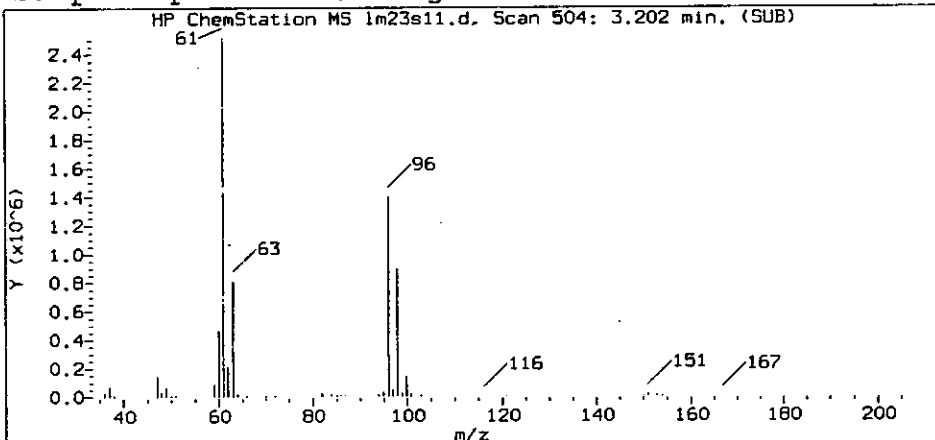
Compound Number : 11
Compound Name : Trichlorofluoromethane
Scan Number : 339
Retention Time (minutes): 2.671
Quant Ion : 101.0
Area (flag) : 23242
Concentration (ug/L) : 2.3490

PTL05 8879

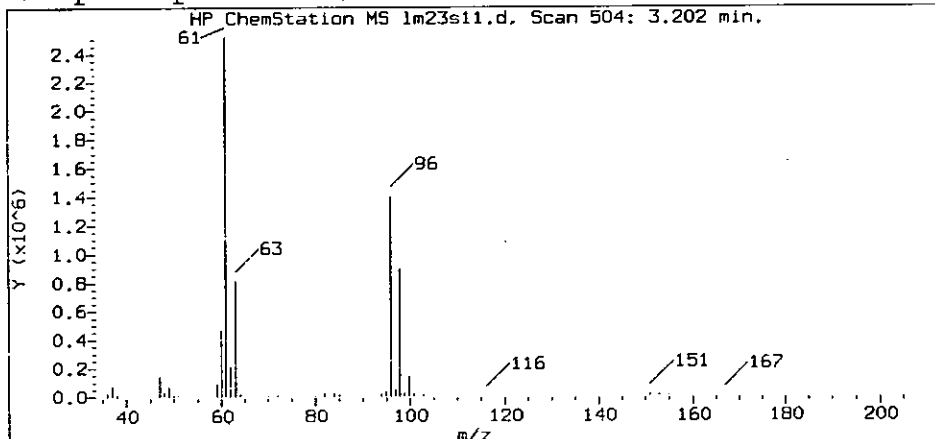
Reference Standard Spectrum for 1,1-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s11.d
Injection date and time: 23-MAR-2010 15:18

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 15:49 kdp02245

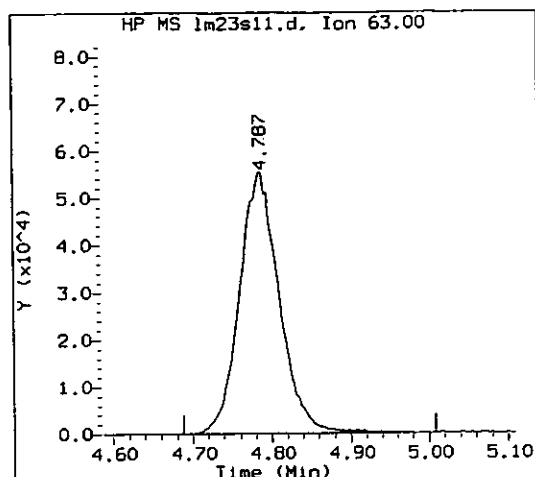
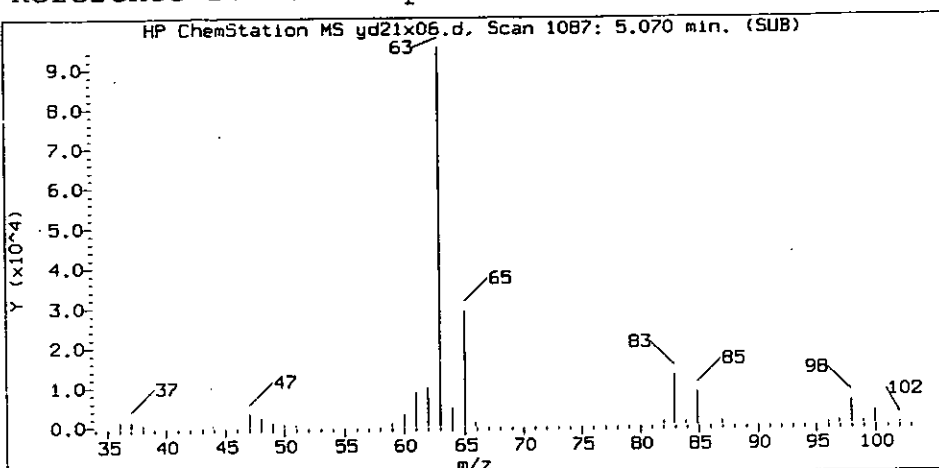
Sample Name: PAT10

Lab Sample ID: 5932503

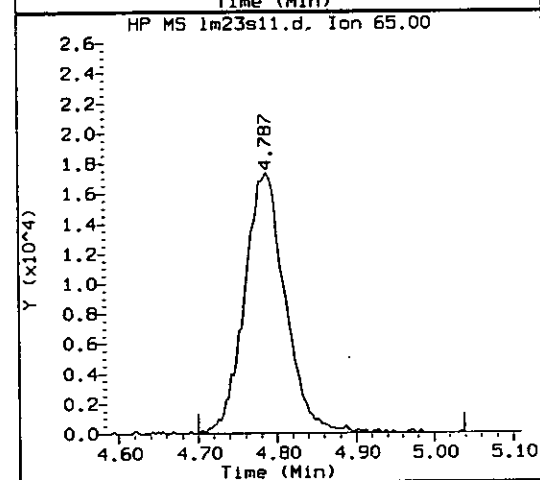
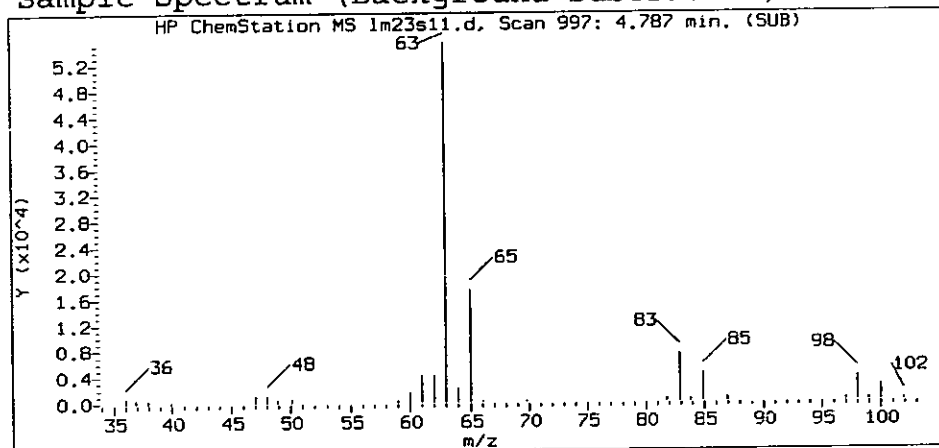
Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 504
Retention Time (minutes) : 3.202
Quant Ion : 96.0
Area (flag) : 4101684
Concentration (ug/L) : 794.9641

PTL05 0000

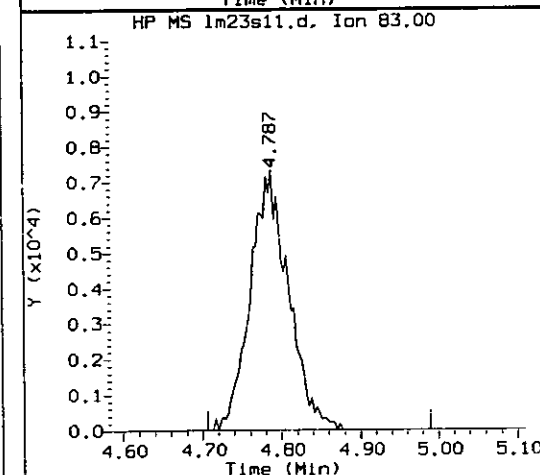
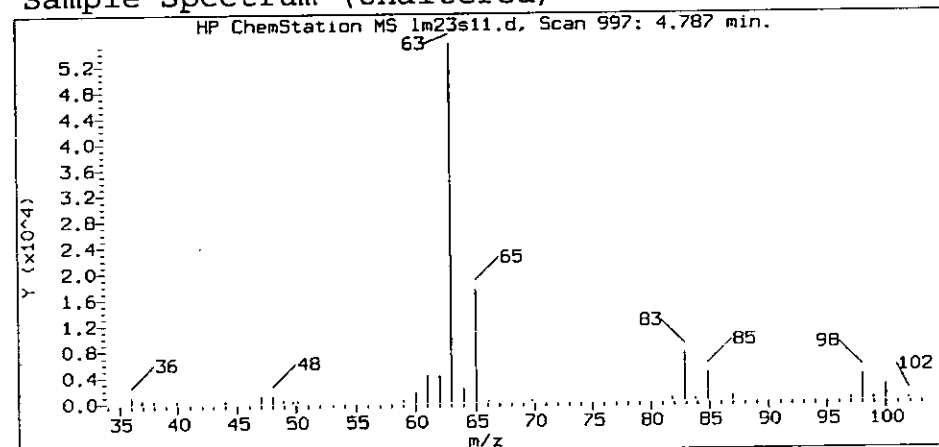
Reference Standard Spectrum for 1,1-Dichloroethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s11.d
Injection date and time: 23-MAR-2010 15:18

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 15:49 kdp02245

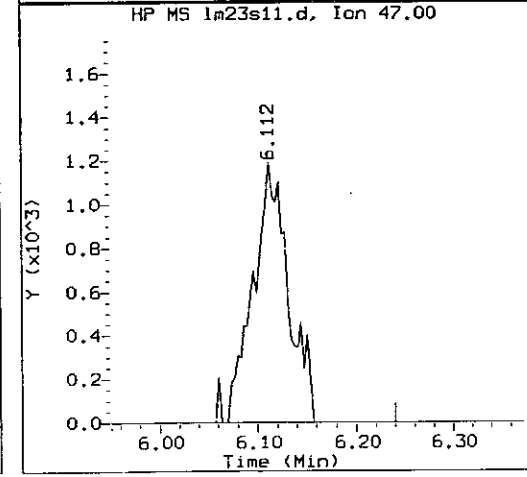
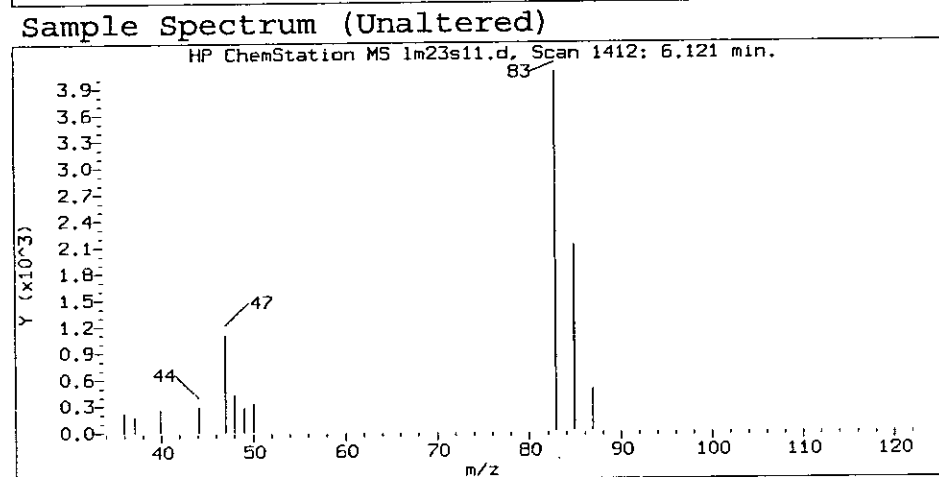
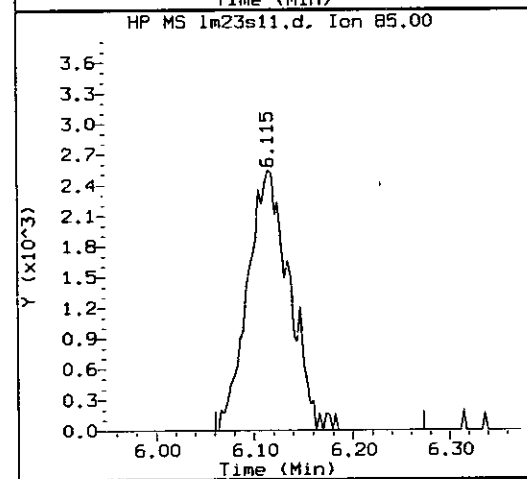
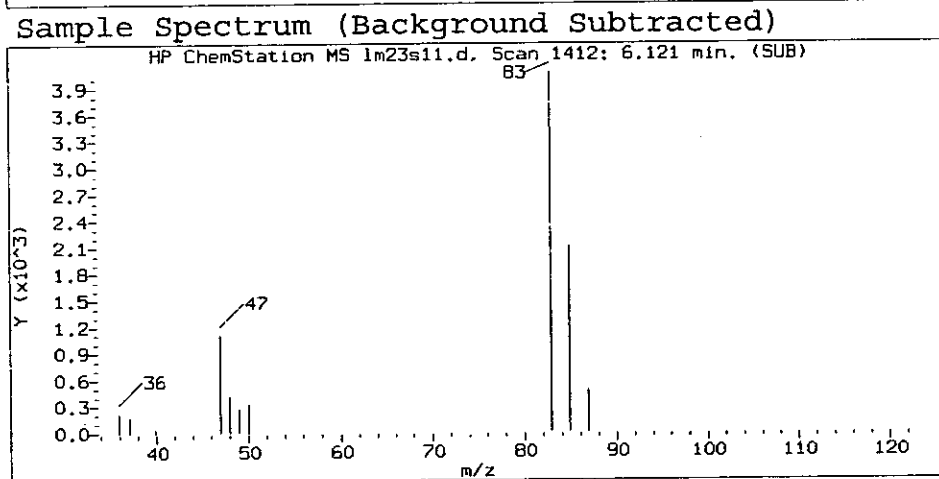
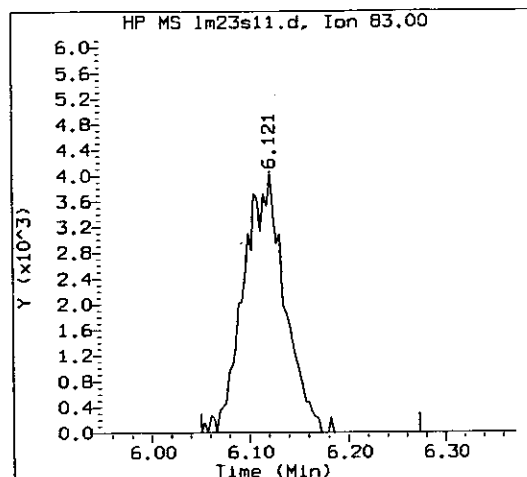
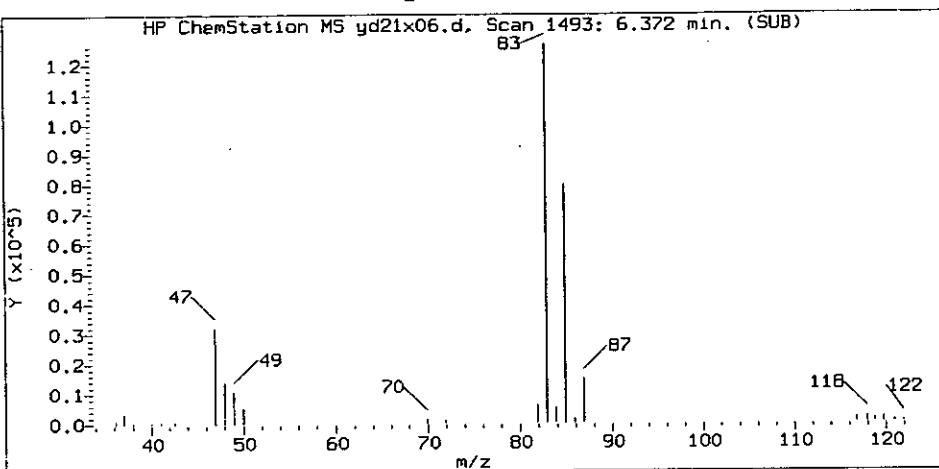
Sample Name: PAT10

Lab Sample ID: 5932503

Compound Number : 37
Compound Name : 1,1-Dichloroethane
Scan Number : 997
Retention Time (minutes) : 4.787
Quant Ion : 63.0
Area (flag) : 195752
Concentration (ug/L) : 17.3928

PTL85 8881

Reference Standard Spectrum for Chloroform



Data File: /chem/HP09915.i/10mar23a.b/lm23s11.d
Injection date and time: 23-MAR-2010 15:18

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 15:49 kdp02245

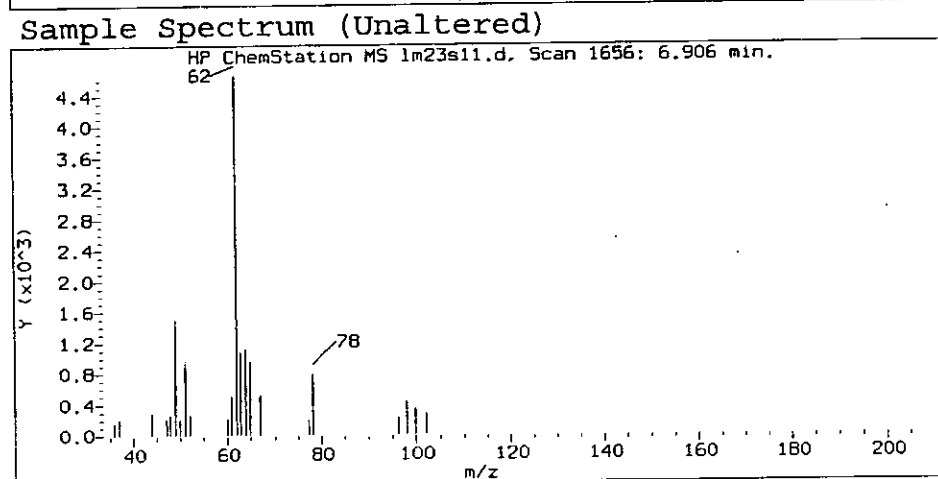
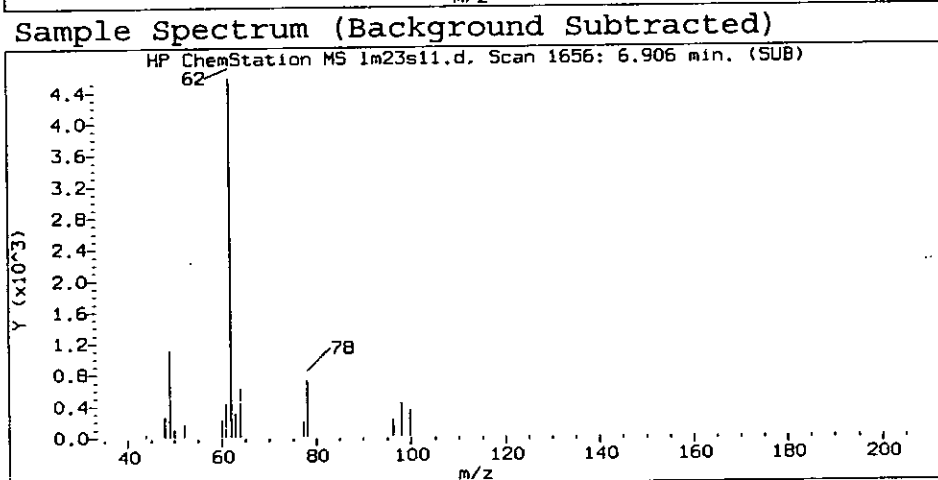
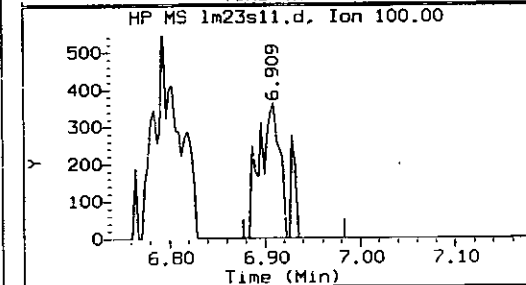
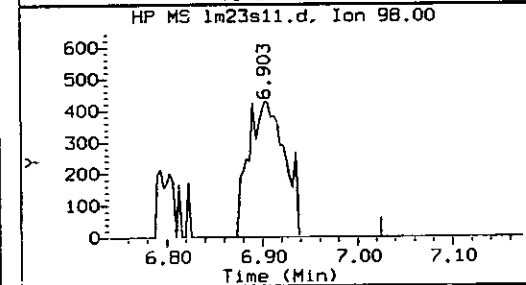
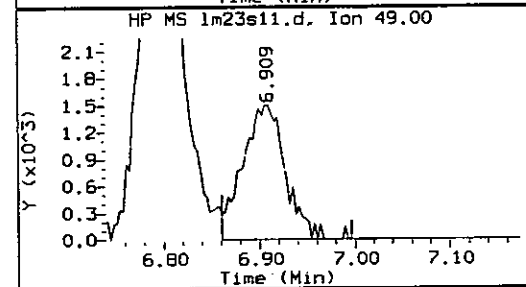
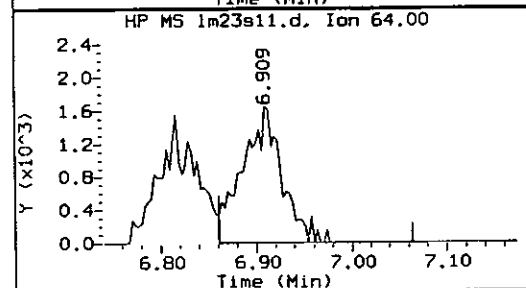
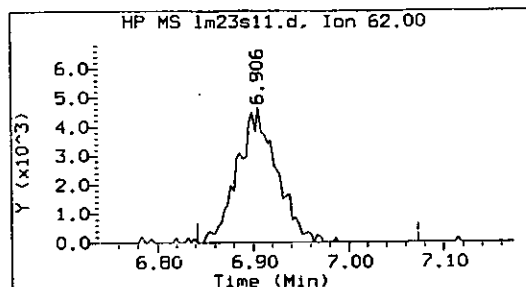
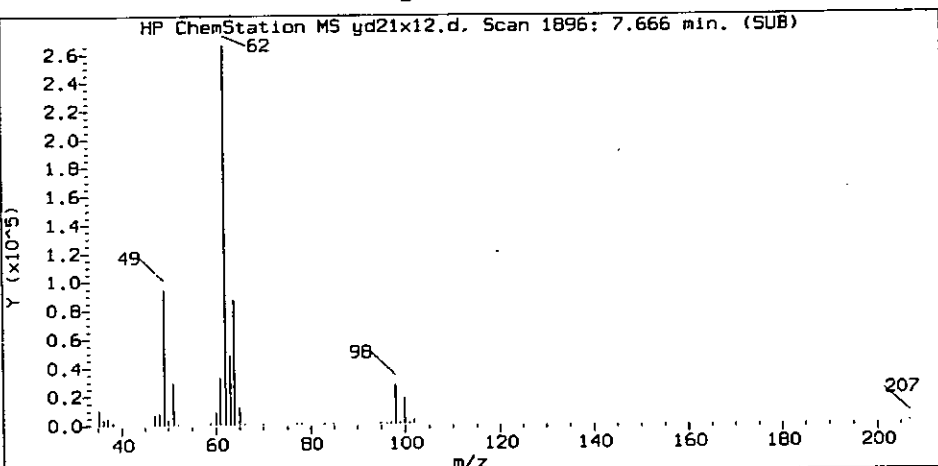
Sample Name: PAT10

Lab Sample ID: 5932503

Compound Number : 53
Compound Name : Chloroform
Scan Number : 1412
Retention Time (minutes): 6.121
Quant Ion : 83.0
Area (flag) : 11724
Concentration (ug/L) : 1.0783

PTL05 0002

Reference Standard Spectrum for 1,2-Dichloroethane



Data File: /chem/HP09915.i/10mar23a.b/lm23s11.d
Injection date and time: 23-MAR-2010 15:18

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 15:49 kdp02245

Sample Name: PAT10

Lab Sample ID: 5932503

Compound Number : 68
Compound Name : 1,2-Dichloroethane
Scan Number : 1656
Retention Time (minutes) : 6.906
Quant Ion : 62.0
Area (flag) : 13216
Concentration (ug/L) : 1.4647

PTL05 0083

PAT10DL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932503

File: /chem/HP09915.i/10mar23a.b/lm23s24.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PAT10DL;5932503;1;0;:::;

Batch: L100821AA

Matrix: WATER

Injected At: 23-MAR-2010 19:40

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID: HP09915.1

Sample Wt./Vol.: 0.5000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor: 10.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
=====	=====	=====	=====	=====	=====	=====
30) t-Butyl Alcohol-d10	3.797(-0.022)	689	65	161604(-6)	250.00	
72) Fluorobenzene	7.269(-0.010)	1769	96	909682(-14)	50.00	
104) Chlorobenzene-d5	10.844(0.000)	2881	117	647666(-15)	50.00	
138) 1,4-Dichlorobenzene-d4	12.742(0.003)	3471	152	340125(-22)	50.00	

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
=====	=====	=====	=====	=====	=====	=====	=====	=====
54) Dibromofluoromethane	(1)	6.330(0.000)	113	220837	49.552	99%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.803(0.000)	102	50871	49.482	99%		77 - 113
90) Toluene-d8	(2)	9.343(0.000)	98	863291	50.219	100%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.857(0.000)	95	311272	48.548	97%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* = PERCENT REC.OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)				ND	ND			20.00	50.00
3) Chloromethane	(1)				ND	ND			10.00	50.00
4) Vinyl Chloride	(1)				ND	ND			10.00	50.00
7) Bromomethane	(1)				ND	ND			10.00	50.00
9) Chloroethane	(1)				ND	ND			10.00	50.00
11) Trichlorofluoromethane	(1)				ND	ND			20.00	50.00
17) 1,1-Dichloroethene	(1)	3.199(-0.001)	96	282078	63.461	634.61			8.00	50.00
20) Acetone	(1)				ND	ND			60.00	200.00
29) Methylene Chloride	(1)				ND	ND			20.00	50.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			8.00	50.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			5.00	50.00
37) 1,1-Dichloroethane	(1)	4.784(-0.001)	63	13561	1.399	13.99		J	10.00	50.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			8.00	50.00
47) 2-Butanone	(1)				ND	ND			30.00	100.00
45) 2,2-Dichloropropane	(1)				ND	ND			10.00	50.00
50) Bromochloromethane	(1)				ND	ND			10.00	50.00
53) Chloroform	(1)				ND	ND			8.00	50.00
56) 1,1,1-Trichloroethane	(1)				ND	ND			8.00	50.00
60) 1,1-Dichloropropene	(1)				ND	ND			10.00	50.00
61) Carbon Tetrachloride	(1)				ND	ND			10.00	50.00
67) Benzene	(1)				ND	ND			5.00	50.00
68) 1,2-Dichloroethane	(1)				ND	ND			10.00	50.00
76) Trichloroethene	(1)				ND	ND			10.00	50.00
79) 1,2-Dichloropropane	(1)				ND	ND			10.00	50.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 1 of 3

PTL05 0084

PAT10DL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932503

File: /chem/HP09915.i/10mar23a.b/lm23s24.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PAT10DL;5932503;1;0;:::

Batch:L100821AA

Matrix: WATER

Injected At: 23-MAR-2010 19:40

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID: HP09915.1

Sample Wt./Vol.: 0.5000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor: 10.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
80) Dibromomethane	(1)					ND	ND			10.00	50.00
84) Bromodichloromethane	(1)					ND	ND			10.00	50.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			10.00	50.00
88) 4-Methyl-2-Pentanone	(1)					ND	ND			30.00	100.00
93) Toluene	(2)					ND	ND			7.00	50.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			10.00	50.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			8.00	50.00
97) Tetrachloroethene	(2)					ND	ND			8.00	50.00
98) 1,3-Dichloropropane	(2)					ND	ND			10.00	50.00
101) Dibromochloromethane	(2)					ND	ND			10.00	50.00
103) 1,2-Dibromoethane	(2)					ND	ND			10.00	50.00
105) Chlorobenzene	(2)					ND	ND			8.00	50.00
106) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			10.00	50.00
107) Ethylbenzene	(2)					ND	ND			8.00	50.00
108) m+p-Xylene	(2)					ND	ND			8.00	50.00
110) o-Xylene	(2)					ND	ND			8.00	50.00
111) Styrene	(2)					ND	ND			10.00	50.00
113) Bromoform	(2)					ND	ND			10.00	50.00
114) Isopropylbenzene	(2)					ND	ND			10.00	50.00
121) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			10.00	50.00
122) Bromobenzene	(3)					ND	ND			10.00	50.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			10.00	50.00
125) n-Propylbenzene	(3)					ND	ND			10.00	50.00
127) 2-Chlorotoluene	(3)					ND	ND			10.00	50.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL05 0825

PAT10DL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932503

File: /chem/HP09915.i/10mar23a.b/lm23s24.d

Sample: PAT10DL;5932503;1;0; ; ; ; ; ; ;

Injected At: 23-MAR-2010 19:40

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID: HP09915.1

Standard Reference: lm23c01.d

Prep Factor: 10.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 0.5000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code: 38A

Target Compounds	I.S.		RT (+/-RRT)	QIon	Area	Conc.	Conc.	Blank	Reporting		
	Ref.					(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
128) 1,3,5-Trimethylbenzene	(3)					ND	ND			10.00	50.00
129) 4-Chlorotoluene	(3)					ND	ND			10.00	50.00
131) tert-Butylbenzene	(3)					ND	ND			10.00	50.00
133) 1,2,4-Trimethylbenzene	(3)					ND	ND			10.00	50.00
134) sec-Butylbenzene	(3)					ND	ND			10.00	50.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			10.00	50.00
136) p-Isopropyltoluene	(3)					ND	ND			10.00	50.00
139) 1,4-Dichlorobenzene	(3)					ND	ND			10.00	50.00
144) n-Butylbenzene	(3)					ND	ND			10.00	50.00
145) 1,2-Dichlorobenzene	(3)					ND	ND			10.00	50.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			20.00	50.00
148) 1,2,4-Trichlorobenzene	(3)					ND	ND			10.00	50.00
149) Hexachlorobutadiene	(3)					ND	ND			20.00	50.00
150) Naphthalene	(3)					ND	ND			10.00	50.00
152) 1,2,3-Trichlorobenzene	(3)					ND	ND			10.00	50.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: Date: 3/28/10Auditor: Date: 3/28/10

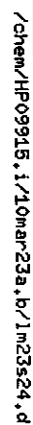
Page 3 of 3

PTL05 0006

Column phase: DB-624

Column diameter: 0.25

APR 25 1968



PTLB5 8687

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s24.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 19:40 Analyst ID: LCP00895

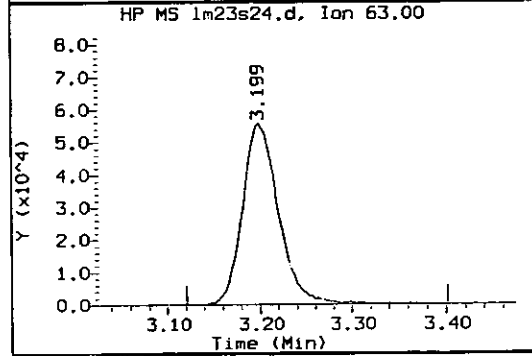
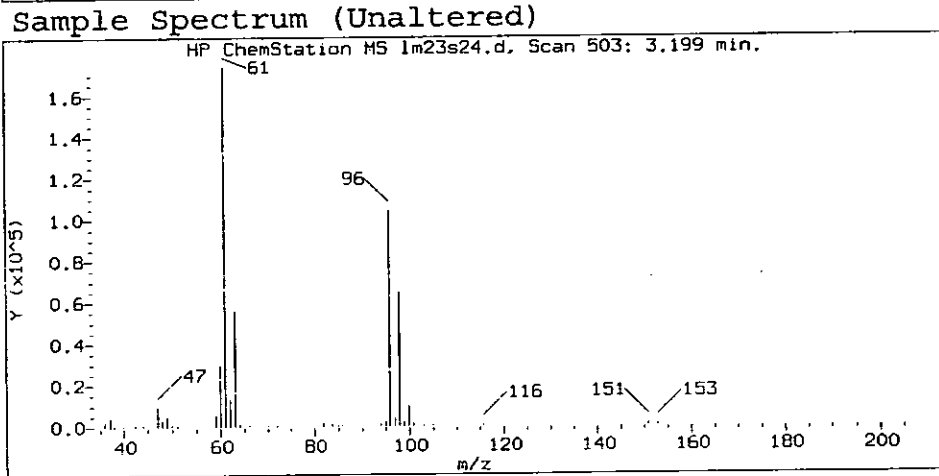
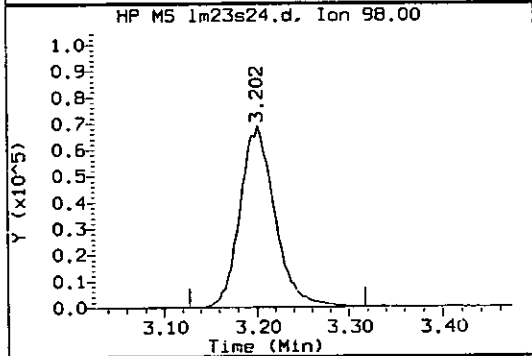
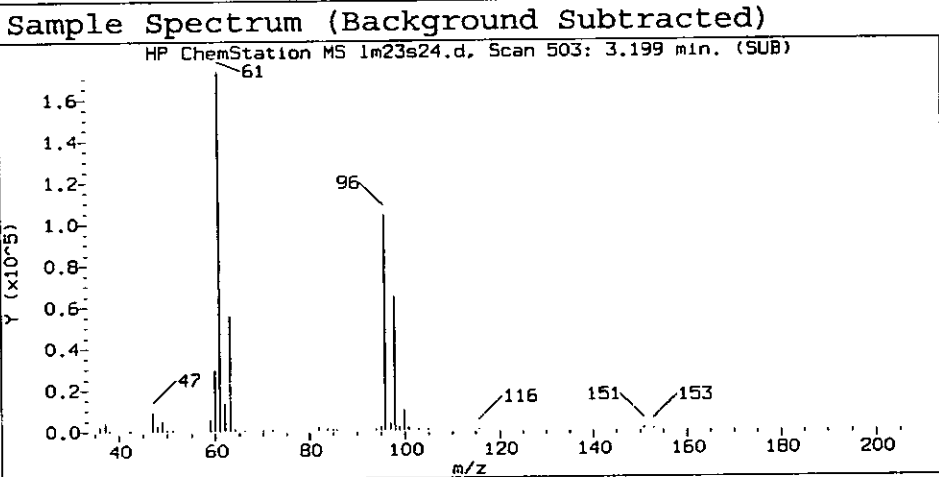
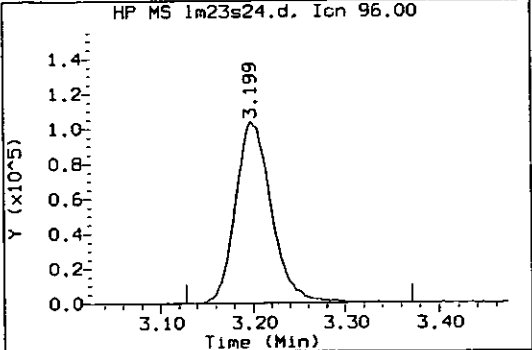
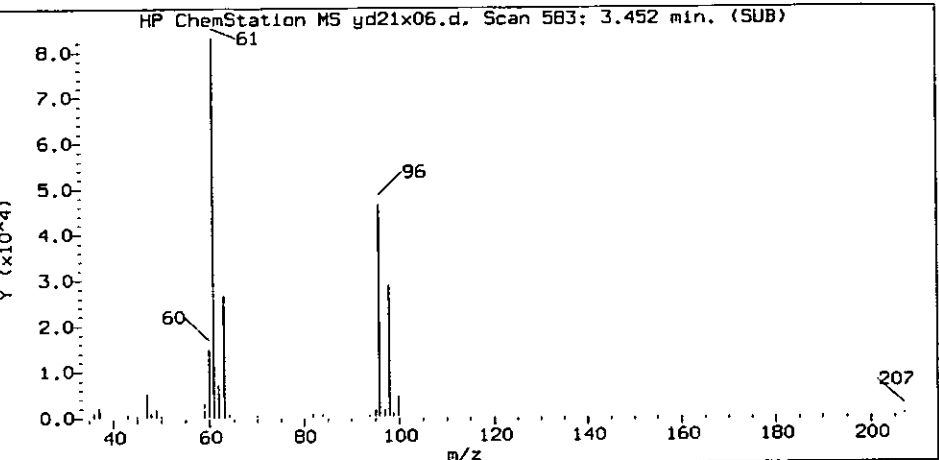
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 19:59 Automation

Sample Name: PAT10DL Lab Sample ID: 5932503

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
17) 1,1-Dichloroethene	(1)	3.199	96	282078	63.461
30)*t-Butyl Alcohol-d10	(4)	3.797	65	161604	250.000
37) 1,1-Dichloroethane	(1)	4.784	63	13561	1.399
72)*Fluorobenzene	(1)	7.269	96	909682	50.000
104)*Chlorobenzene-d5	(2)	10.844	117	647666	50.000
138)*1,4-Dichlorobenzene-d4	(3)	12.742	152	340125	50.000
54)\$Dibromofluoromethane	(1)	6.330	113	220837	49.552
64)\$1,2-Dichloroethane-d4	(1)	6.803	102	50871	49.482
90)\$Toluene-d8	(2)	9.343	98	863291	50.219
119)\$4-Bromofluorobenzene	(2)	11.857	95	311272	48.548

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

Reference Standard Spectrum for 1,1-Dichloroethene



Data File: /chem/HP09915.i/10mar23a.b/lm23s24.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 19:40 Analyst ID: LCP00895

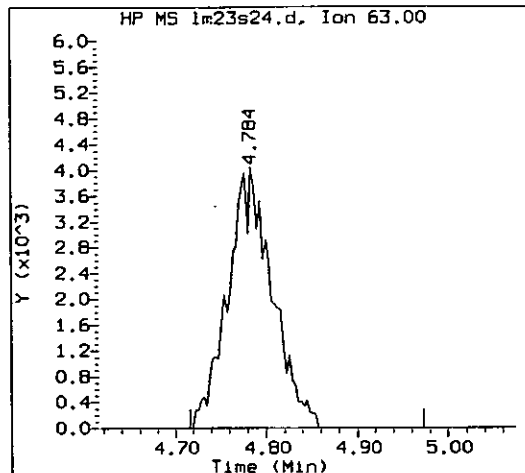
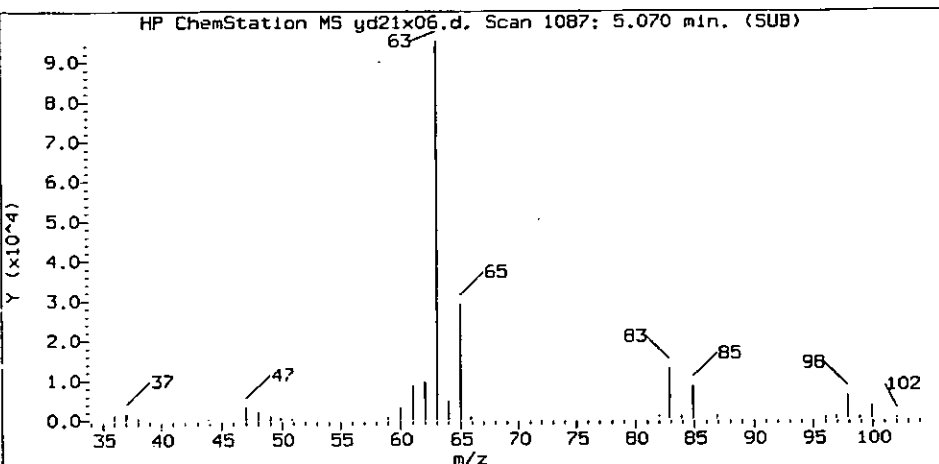
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 19:59 Automation

Sample Name: PAT10DL Lab Sample ID: 5932503

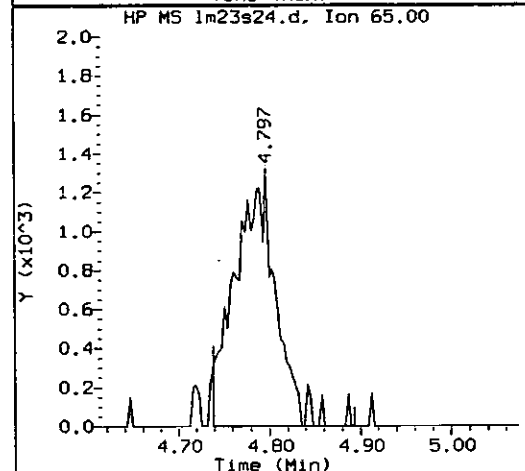
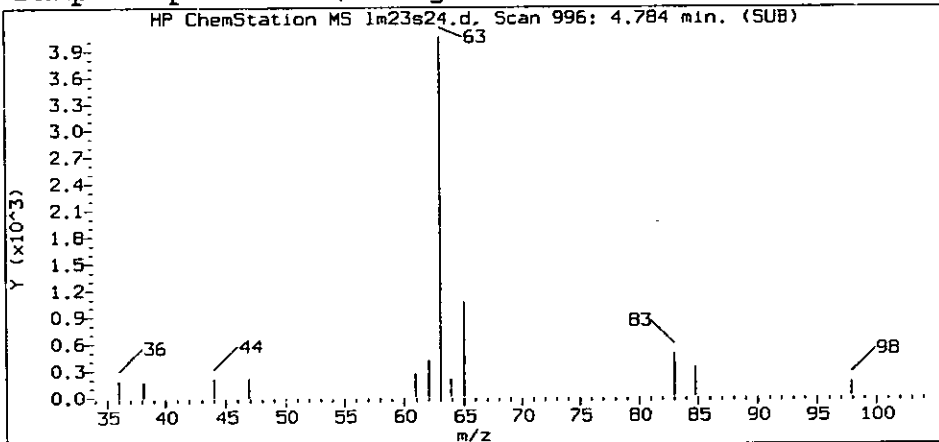
Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 503
Retention Time (minutes) : 3.199
Quant Ion : 96.0
Area (flag) : 282078
Concentration (ug/L) : 63.4614

PTL05 8889

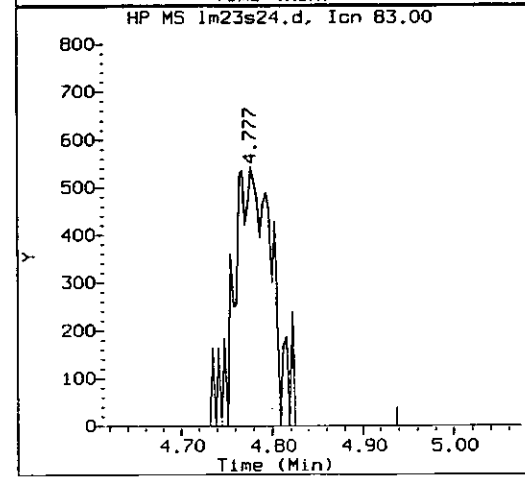
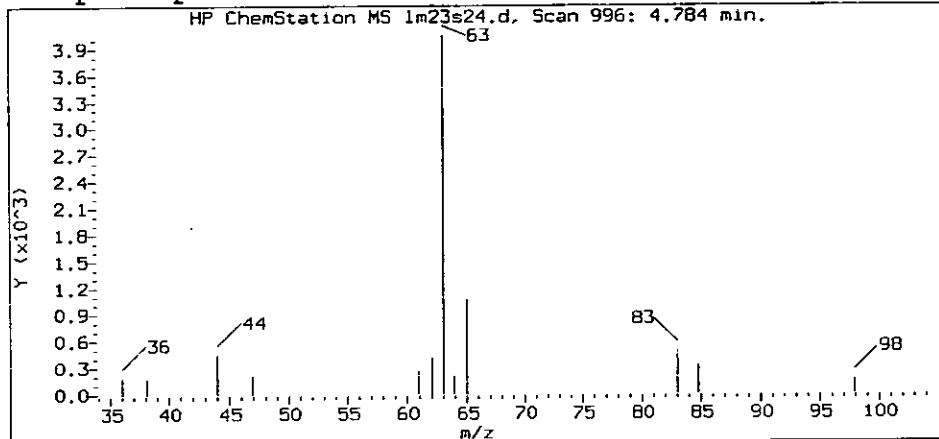
Reference Standard Spectrum for 1,1-Dichloroethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s24.d
Injection date and time: 23-MAR-2010 19:40

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 19:59 Automation

Sample Name: PAT10DL

Lab Sample ID: 5932503

Compound Number : 37
Compound Name : 1,1-Dichloroethane
Scan Number : 996
Retention Time (minutes): 4.784
Quant Ion : 63.0
Area (flag) : 13561
Concentration (ug/L) : 1.3987

PTL05 8898

PATT1

Lancaster Laboratories Quantitation Report GC/MS Volatiles

5932504

File: /chem/HP09915.i/10mar23a.b/lm23s02.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PATT1;5932504;1;0;:::

Batch:L100821AA

Matrix: WATER

Injected At:23-MAR-2010 12:01

Analyst:LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.803(-0.029)	691	65	188535(10)	250.00	
72) Fluorobenzene	7.269(-0.010)	1769	96	1078696(2)	50.00	
104) Chlorobenzene-d5	10.848(-0.003)	2882	117	777108(2)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	420245(-3)	50.00	

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.340(-0.001)	113	263884	49.933	100%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.803(0.000)	102	60587	49.699	99%		77 - 113
90) Toluene-d8	(2)	9.343(0.000)	98	1027328	49.807	100%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.858(0.000)	95	380139	49.413	99%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* = PERCENT REC.OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
20) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
47) 2-Butanone	(1)				ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
50) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
56) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

PATT1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932504

File: /chem/HP09915.1/10mar23a.b/lm23s02.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PATT1;5932504;1;0;:::;

Batch: L100821AA

Matrix: WATER

Injected At: 23-MAR-2010 12:01

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID: HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor: 1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting		
								Qual.	Limit	LOQ
80) Dibromomethane	(1)				ND	ND			1.00	5.00
84) Bromodichloromethane	(1)				ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)				ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)				ND	ND			3.00	10.00
93) Toluene	(2)				ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)				ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)				ND	ND			0.80	5.00
97) Tetrachloroethene	(2)				ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)				ND	ND			1.00	5.00
101) Dibromochloromethane	(2)				ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)				ND	ND			1.00	5.00
105) Chlorobenzene	(2)				ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)				ND	ND			1.00	5.00
107) Ethylbenzene	(2)				ND	ND			0.80	5.00
108) m+p-Xylene	(2)				ND	ND			0.80	5.00
110) o-Xylene	(2)				ND	ND			0.80	5.00
111) Styrene	(2)				ND	ND			1.00	5.00
113) Bromoform	(2)				ND	ND			1.00	5.00
114) Isopropylbenzene	(2)				ND	ND			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)				ND	ND			1.00	5.00
122) Bromobenzene	(3)				ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)				ND	ND			1.00	5.00
125) n-Propylbenzene	(3)				ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL05 0092

File: /chem/HP09915.i/10mar23a.b/lm23s02.d
Sample: PATT1;5932504;1;0; ; ; ; ;
Injected At: 23-MAR-2010 12:01
Calibration Time: 17-FEB-2010 21:34
Target Method: L8260W.m
Blank Reference: lm23b02.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)	
Batch: L100821AA	Matrix: WATER
Analyst: LCP00895	Level: Low
Instrument ID: HP09915.1	Sample Wt./Vol
Standard Reference: 1m23c01.d	Volume Purged
Prep Factor: 1.00	
Units: ug/L	Bottle Code: 3

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S.	RT (+/-RRT)	QIon	Area	Conc.	Conc.	Blank	Reporting	
	Ref.				(on column)	(in sample)	Conc.	Qual.	Limit
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
128) 1,3,5-Trimethylbenzene	(3)				ND	ND		1.00	5.00
129) 4-Chlorotoluene	(3)				ND	ND		1.00	5.00
131) tert-Butylbenzene	(3)				ND	ND		1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)				ND	ND		1.00	5.00
134) sec-Butylbenzene	(3)				ND	ND		1.00	5.00
135) 1,3-Dichlorobenzene	(3)				ND	ND		1.00	5.00
136) p-Isopropyltoluene	(3)				ND	ND		1.00	5.00
139) 1,4-Dichlorobenzene	(3)				ND	ND		1.00	5.00
144) n-Butylbenzene	(3)				ND	ND		1.00	5.00
145) 1,2-Dichlorobenzene	(3)				ND	ND		1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)				ND	ND		2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)				ND	ND		1.00	5.00
149) Hexachlorobutadiene	(3)				ND	ND		2.00	5.00
150) Naphthalene	(3)				ND	ND		1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)				ND	ND		1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

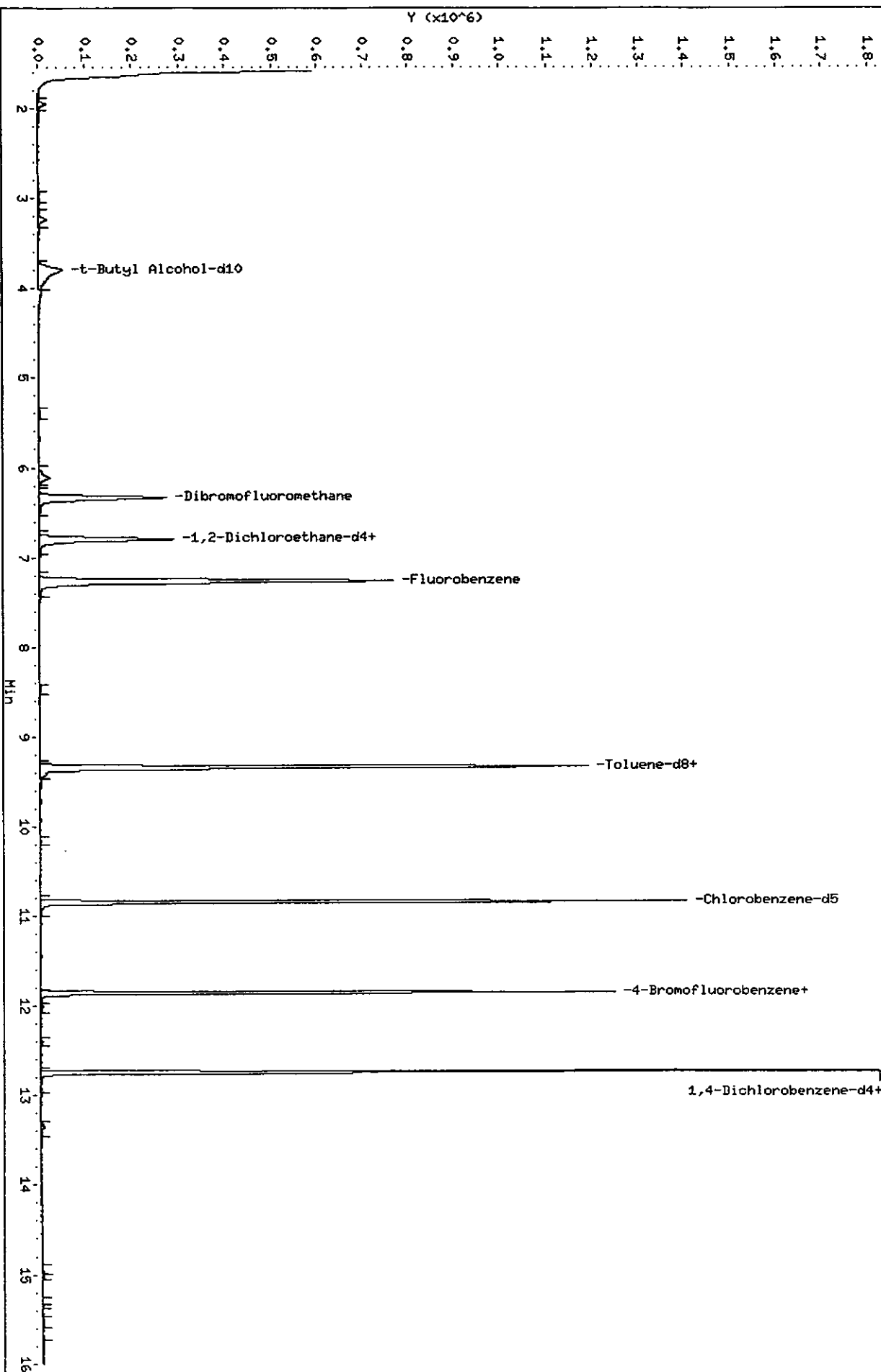
Comments: _____

Analyst: 2ep8ar Date: 3/23/10
Auditor: *[Signature]* Date: 3/28/10

Data File: /chem/HP09915.1/10mar23a.b/1m23s03.d
Date : 23-MAR-2010 12:23
Client ID: PATE2
Sample Info: PATE2;5932505;1;0;?????
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.1
Operator: LCP00895
Column diameter: 0.25

/chem/HP09915.1/10mar23a.b/1m23s03.d



PTL05 8894

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s02.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 12:01 Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 14:29 lcp00895

Sample Name: PATT1 Lab Sample ID: 5932504

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
30)*t-Butyl Alcohol-d10	(4)	3.803	65	188535	250.000
72)*Fluorobenzene	(1)	7.269	96	1078696	50.000
104)*Chlorobenzene-d5	(2)	10.848	117	777108	50.000
138)*1,4-Dichlorobenzene-d4	(3)	12.745	152	420245	50.000
54)\$Dibromofluoromethane	(1)	6.340	113	263884	49.933
64)\$1,2-Dichloroethane-d4	(1)	6.803	102	60587	49.699
90)\$Toluene-d8	(2)	9.343	98	1027328	49.807
119)\$4-Bromofluorobenzene	(2)	11.858	95	380139	49.413

* = Compound is an internal standard.

\$ = Compound is a surrogate standard.

PATE2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932505

File: /chem/HP09915.1/10mar23a.b/lm23s03.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PATE2;5932505;1;0; ; ; ; ; ; ; ;

Batch: L100821AA

Matrix: WATER

Injected At: 23-MAR-2010 12:23

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID: HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor: 1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.797(-0.023)	689	65	196063(14)	250.00	
72) Fluorobenzene	7.266(-0.007)	1768	96	1046684(-1)	50.00	
104) Chlorobenzene-d5	10.845(0.000)	2881	117	764218(1)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	411671(-5)	50.00	

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.334(-0.001)	113	257668	50.248	100%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.797(0.000)	102	59257	50.095	100%		77 - 113
90) Toluene-d8	(2)	9.340(0.000)	98	1004623	49.527	99%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.858(0.000)	95	367912	48.631	97%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* = PERCENT REC.OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
20) Acetone	(1)	3.241(-0.003)	43	39580	13.314	13.31		J	6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
47) 2-Butanone	(1)				ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
50) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)	6.118(-0.001)	83	27086	2.513	2.51		J	0.80	5.00
56) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 1 of 3

PTL05 8096

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932505

File: /chem/HP09915.i/10mar23a.b/lm23s03.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PATE2;5932505;1;0;;;;;;;;;

Batch: L100821AA

Matrix: WATER

Injected At: 23-MAR-2010 12:23

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: 1m23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	Qion	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
101) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
107) Ethylbenzene	(2)					ND	ND			0.80	5.00
108) m+p-Xylene	(2)					ND	ND			0.80	5.00
110) o-Xylene	(2)					ND	ND			0.80	5.00
111) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
114) Isopropylbenzene	(2)					ND	ND			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E * CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL 85 0897

File: /chem/HP09915.i/10mar23a.b/lm23s03.d

Sample: PATE2:5932505:1:0:~::~:

Injected At:23-MAR-2010 12:23

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: 1m23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID:HP09915.1

Standard Reference: lm23c01.d

Prep Factor:1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code: 38A

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
128) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
129) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
131) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
139) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
144) n-Butylbenzene	(3)					ND	ND			1.00	5.00
145) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
149) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
150) Naphthalene	(3)					ND	ND			1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: YCPB91 Date: 3.23.0

Auditor: Chitra A S Date: 19/01/10

Data File: /chem/HP09915.i/10mar23a.b/1m23s06.d

Date : 23-MAR-2010 13:28

Client ID: PA19D

Sample Info: PA19D;5932615;1;0;++++;

Purge Volume: 5.0

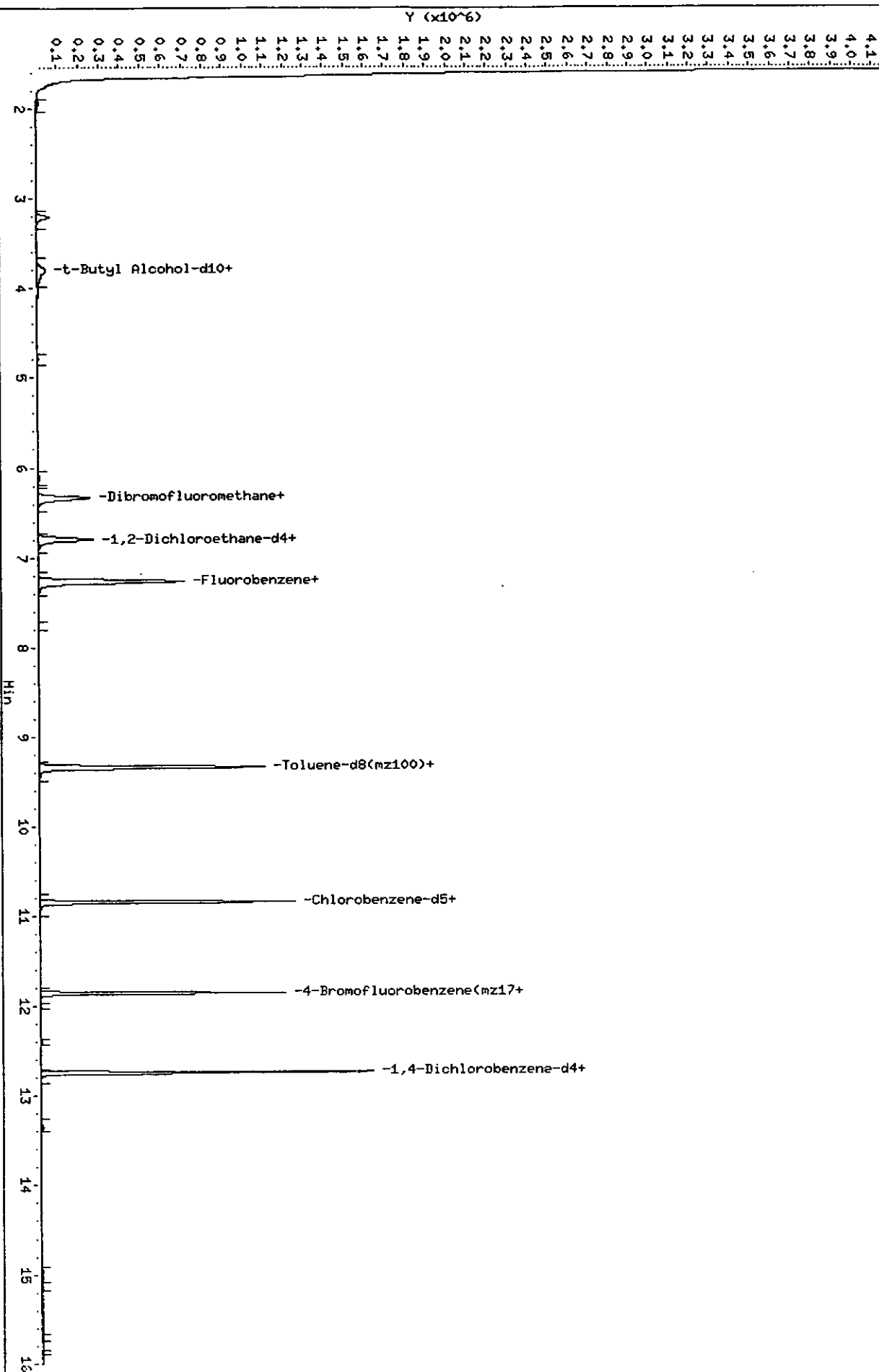
Column phase: DB-624

Instrument: HP09915.i

Operator: LCP00895

Column diameter: 0.25

/chem/HP09915.i/10mar23a.b/1m23s06.d



0.46.6
-1508057

PT105 8659

Quant Report

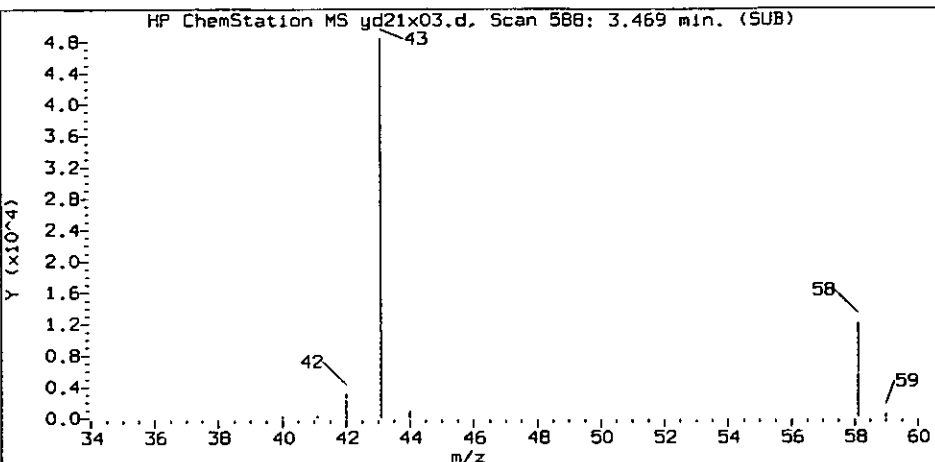
Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s03.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 12:23 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 14:28 lcp00895
Sample Name: PATE2 Lab Sample ID: 5932505

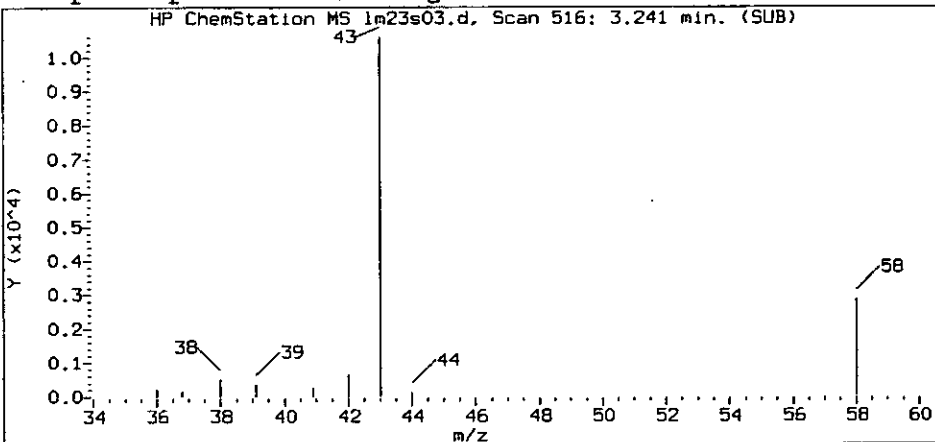
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
20) Acetone	(1)	3.241	43	39580	13.314
30) *t-Butyl Alcohol-d10	(4)	3.797	65	196063	250.000
53) Chloroform	(1)	6.118	83	27086	2.513
72) *Fluorobenzene	(1)	7.266	96	1046684	50.000
104) *Chlorobenzene-d5	(2)	10.845	117	764218	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	411671	50.000
54) \$Dibromofluoromethane	(1)	6.334	113	257668	50.248
64) \$1,2-Dichloroethane-d4	(1)	6.797	102	59257	50.095
90) \$Toluene-d8	(2)	9.340	98	1004623	49.527
119) \$4-Bromofluorobenzene	(2)	11.858	95	367912	48.631

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

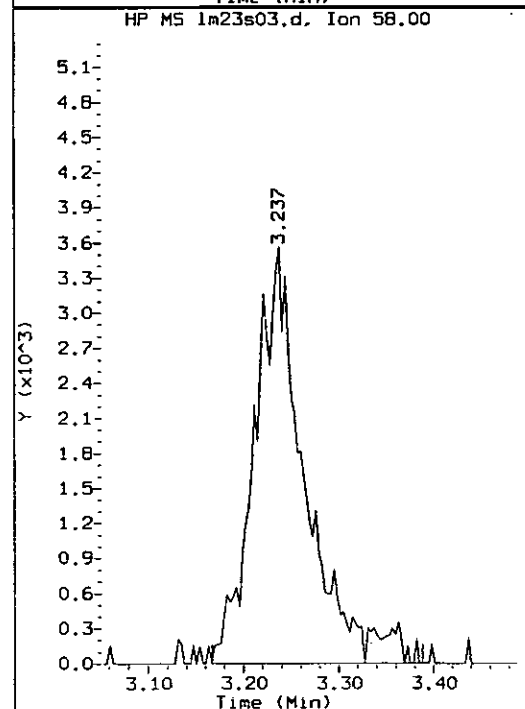
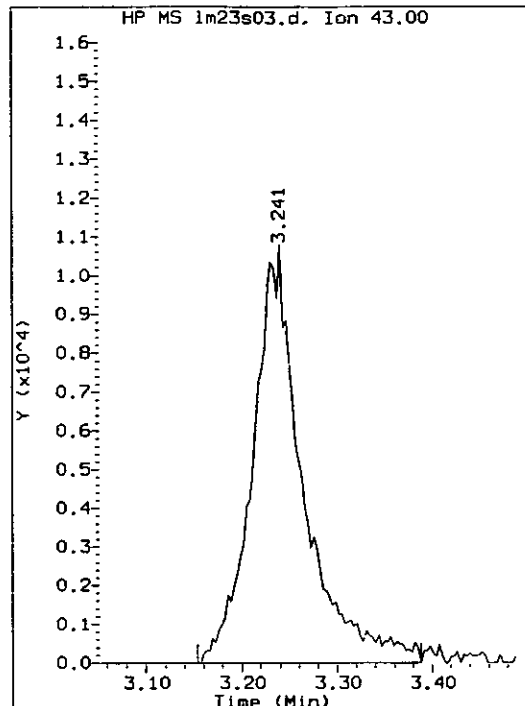
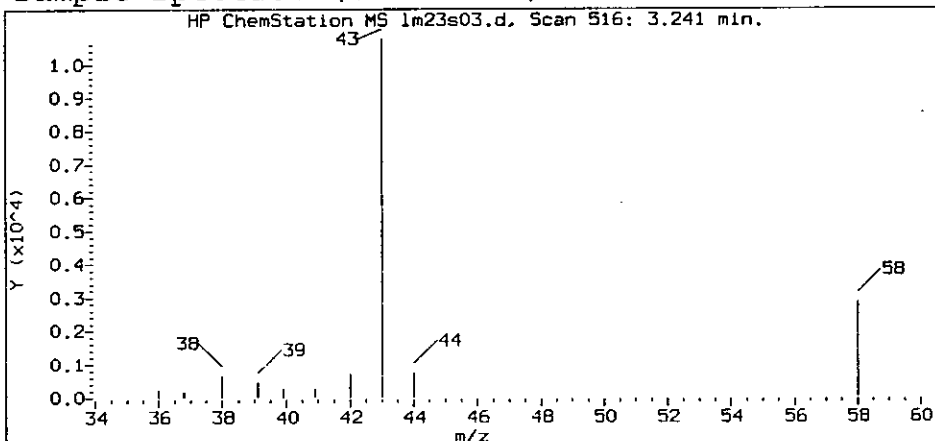
Reference Standard Spectrum for Acetone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s03.d
Injection date and time: 23-MAR-2010 12:23

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 14:28 lcp00895

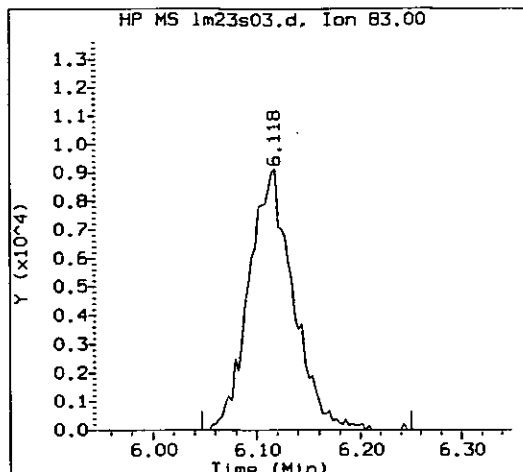
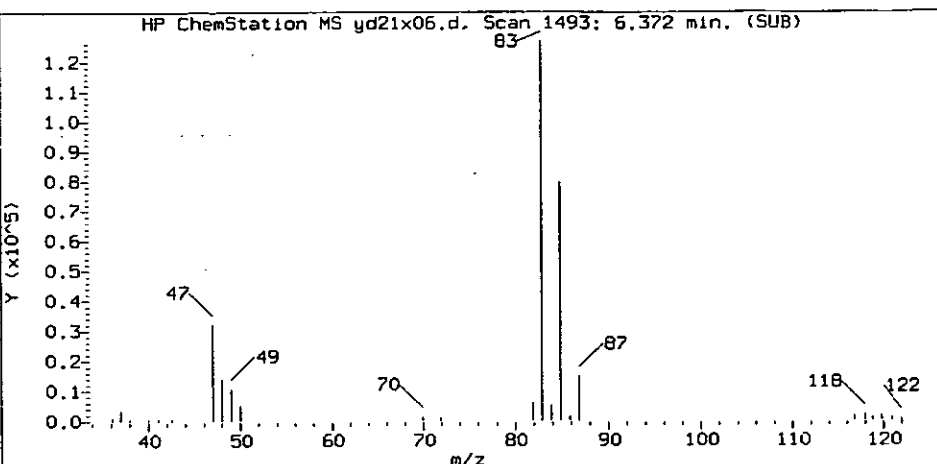
Sample Name: PATE2

Lab Sample ID: 5932505

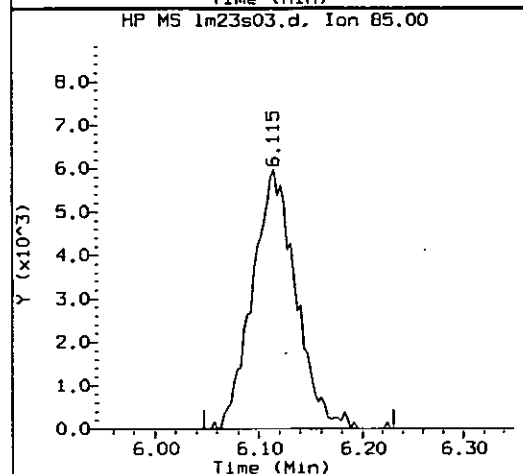
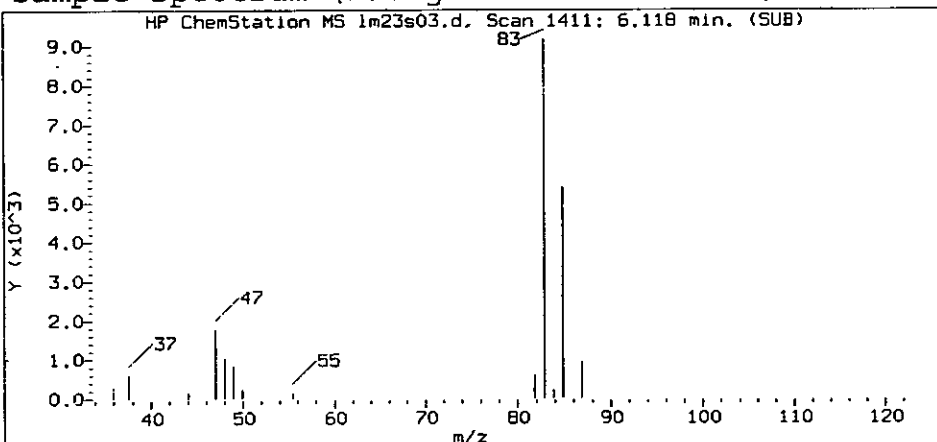
Compound Number : 20
Compound Name : Acetone
Scan Number : 516
Retention Time (minutes) : 3.241
Quant Ion : 43.0
Area (flag) : 39580
Concentration (ug/L) : 13.3137

PTL05: 0101

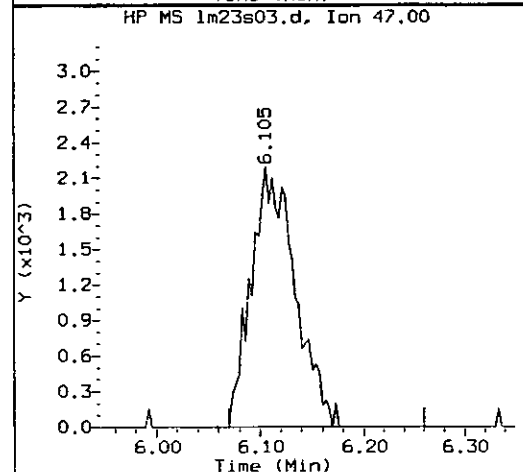
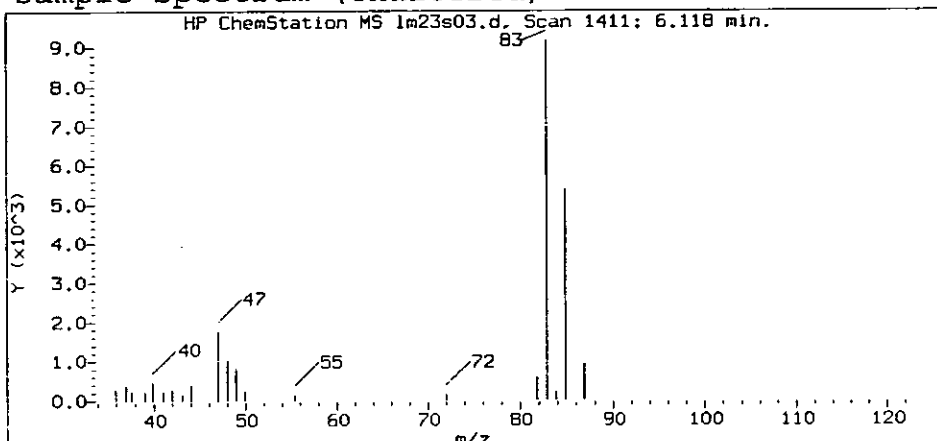
Reference Standard Spectrum for Chloroform



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s03.d
Injection date and time: 23-MAR-2010 12:23

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 14:28 lcp00895

Sample Name: PATE2

Lab Sample ID: 5932505

Compound Number : 53
Compound Name : Chloroform
Scan Number : 1411
Retention Time (minutes) : 6.118
Quant Ion : 83.0
Area (flag) : 27086
Concentration (ug/L) : 2.5133

PTL05 0102

PA15D

Lancaster Laboratories Quantitation Report GC/MS Volatiles

5932506

File: /chem/HP09915.i/10mar23a.b/lm23s25.d
Sample: PA15D;5932506;1;0; ; ; ; ; ;
Injected At: 23-MAR-2010 20:02
Calibration Time: 17-FEB-2010 21:34
Target Method: L8260W.m
Blank Reference: lm23b02.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: L100821AA Matrix: WATER
Analyst: LCP00895 Level: Low
Instrument ID: HP09915.1 Sample Wt./Vol.: 5.0000 ml (Vo)
Standard Reference: lm23c01.d Volume Purged: 5.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code: 38B

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.790(-0.016)	687	65	153706(-10)	250.00	
72) Fluorobenzene	7.263(-0.003)	1767	96	905825(-14)	50.00	
104) Chlorobenzene-d5	10.845(0.000)	2881	117	650691(-14)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	338645(-22)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.330(0.000)	113	221344	49.877	100%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.796(0.000)	102	50585	49.413	99%		77 - 113
90) Toluene-d8	(2)	9.340(0.000)	98	861117	49.859	100%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.857(0.000)	95	313884	48.728	97%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)	3.152(0.000)	96	228548	51.637	51.64			0.80	5.00
20) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)	4.777(-0.001)	63	16865	1.747	1.75		J	1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
47) 2-Butanone	(1)				ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
50) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
56) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PA15D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932506

File: /chem/HP09915.i/10mar23a.b/lm23s25.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA15D;5932506;1;0; ; ; ; ; ; ; ;

Batch:L100821AA

Matrix: WATER

Injected At:23-MAR-2010 20:02

Analyst:LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code:38B

Target Compounds	I S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
80) Dibromomethane	(1)				ND	ND			1.00	5.00
84) Bromodichloromethane	(1)				ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)				ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)				ND	ND			3.00	10.00
93) Toluene	(2)				ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)				ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)				ND	ND			0.80	5.00
97) Tetrachloroethene	(2)				ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)				ND	ND			1.00	5.00
101) Dibromochloromethane	(2)				ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)				ND	ND			1.00	5.00
105) Chlorobenzene	(2)				ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)				ND	ND			1.00	5.00
107) Ethylbenzene	(2)				ND	ND			0.80	5.00
108) m+p-Xylene	(2)				ND	ND			0.80	5.00
110) o-Xylene	(2)				ND	ND			0.80	5.00
111) Styrene	(2)				ND	ND			1.00	5.00
113) Bromoform	(2)				ND	ND			1.00	5.00
114) Isopropylbenzene	(2)				ND	ND			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)				ND	ND			1.00	5.00
122) Bromobenzene	(3)				ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)				ND	ND			1.00	5.00
125) n-Propylbenzene	(3)				ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL85 8184

PA15D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932506

File: /chem/HP09915.i/10mar23a.b/lm23s25.d
Sample: PA15D;5932506;1;0;:::
Injected At:23-MAR-2010 20:02
Calibration Time: 17-FEB-2010 21:34
Target Method: L8260W.m
Blank Reference: lm23b02.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:LI00821AA
Analyst:LCP00895
Instrument ID:HP09915.i
Standard Reference: lm23c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38B

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
128) 1,3,5-Trimethylbenzene	(3)				ND	ND			1.00	5.00
129) 4-Chlorotoluene	(3)				ND	ND			1.00	5.00
131) tert-Butylbenzene	(3)				ND	ND			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)				ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)				ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)				ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)				ND	ND			1.00	5.00
139) 1,4-Dichlorobenzene	(3)				ND	ND			1.00	5.00
144) n-Butylbenzene	(3)				ND	ND			1.00	5.00
145) 1,2-Dichlorobenzene	(3)				ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)				ND	ND			2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)				ND	ND			1.00	5.00
149) Hexachlorobutadiene	(3)				ND	ND			2.00	5.00
150) Naphthalene	(3)				ND	ND			1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: WSP Date: 3/23/10

Auditor: [Signature] Date: 3/28/10

Data File: /chem/HP09915.i/10mar23a.b/ln23s25.d
Date : 23-MAR-2010 20:02
Client ID: PA15D
Sample Info: PA15D;5932506;1;0;+++++;
Purge Volume: 5.0
Column phase: DB-624

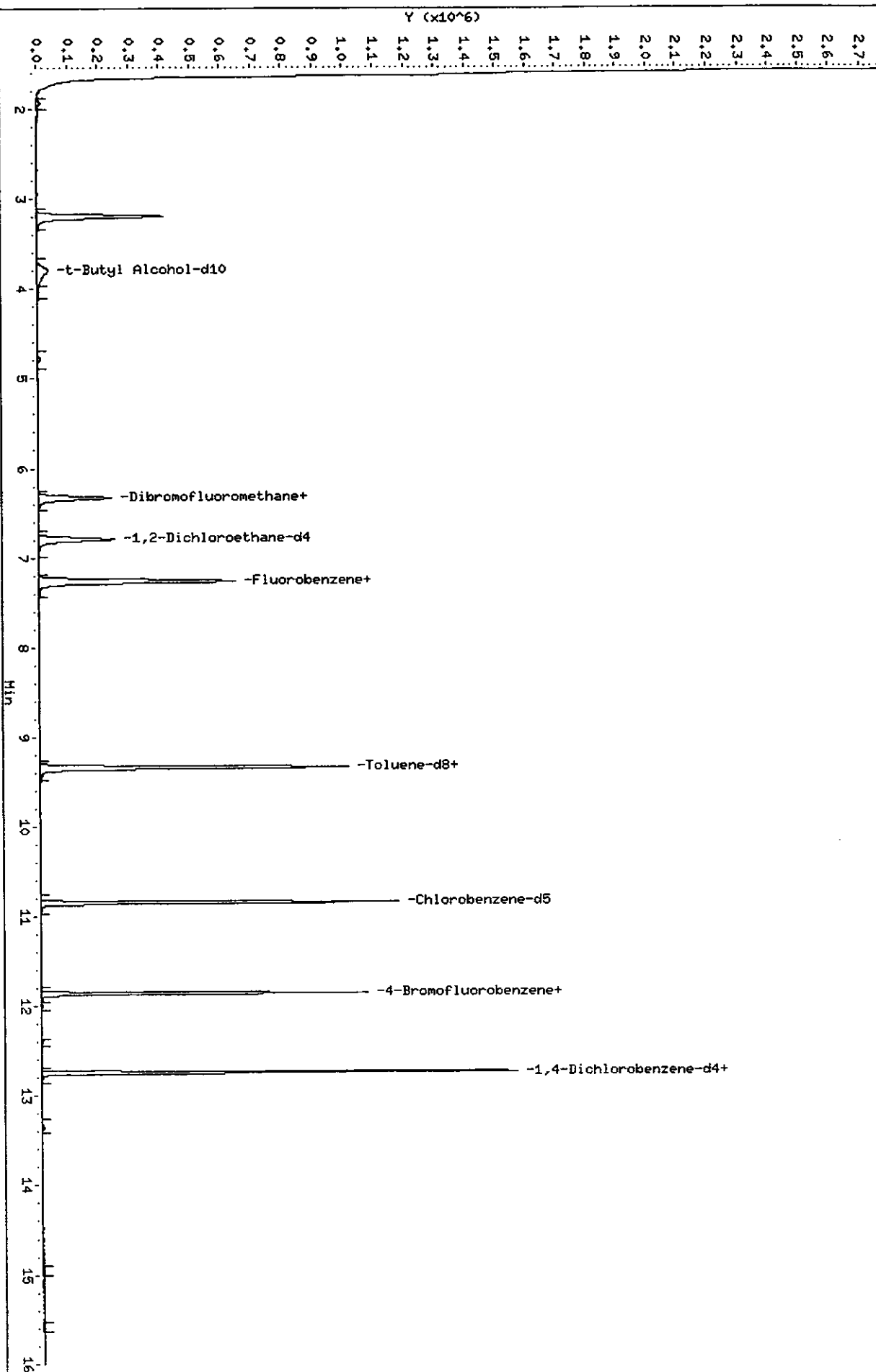
Instrument: HP09915.1
Operator: LCP00895
Column diameter: 0.25

/chem/HP09915.i/10mar23a.b/ln23s25.d

PA15D
3/23/10

PTL05 0866

Page 1



Quant Report

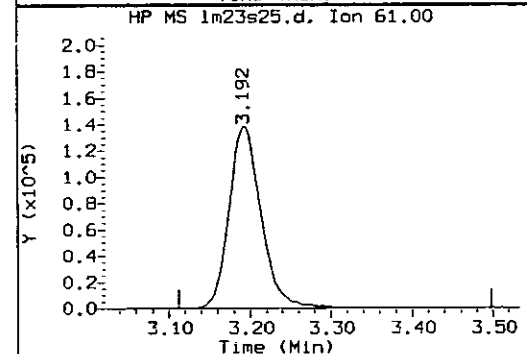
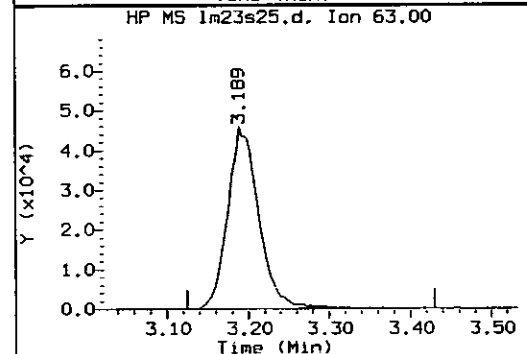
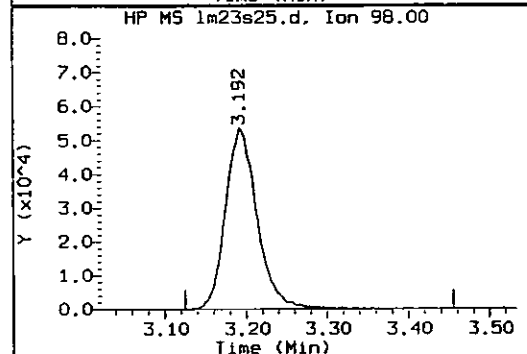
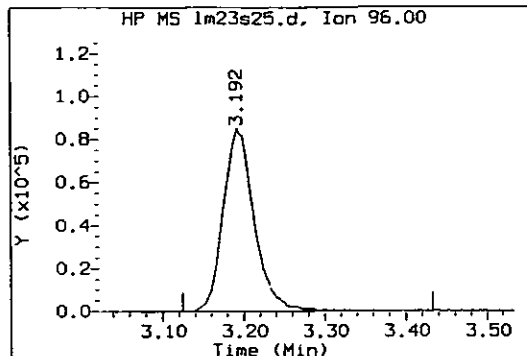
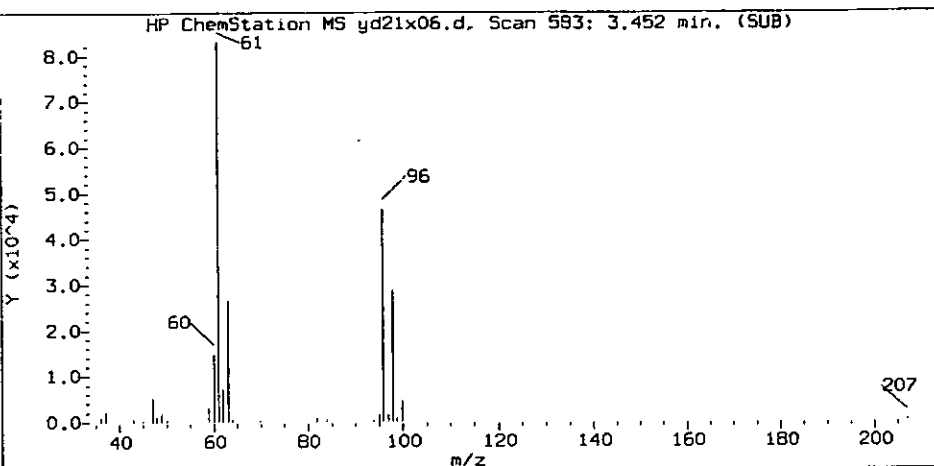
Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s25.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 20:02 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 21:07 kdp02245
Sample Name: PA15D Lab Sample ID: 5932506

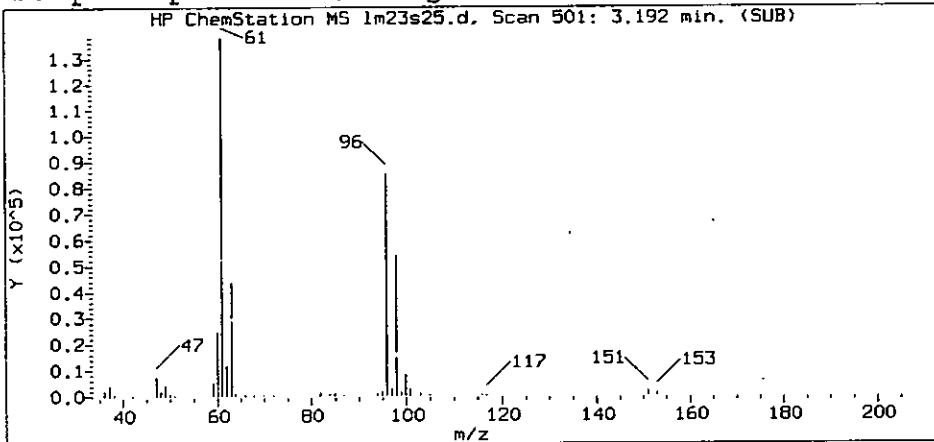
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
17) 1,1-Dichloroethene	(1)	3.192	96	228548	51.637
30) *t-Butyl Alcohol-d10	(4)	3.790	65	153706	250.000
37) 1,1-Dichloroethane	(1)	4.777	63	16865	1.747
72) *Fluorobenzene	(1)	7.263	96	905825	50.000
104) *Chlorobenzene-d5	(2)	10.845	117	650691	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	338645	50.000
54) \$Dibromofluoromethane	(1)	6.330	113	221344	49.877
64) \$1,2-Dichloroethane-d4	(1)	6.796	102	50585	49.413
90) \$Toluene-d8	(2)	9.340	98	861117	49.859
119) \$4-Bromofluorobenzene	(2)	11.857	95	313884	48.728

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

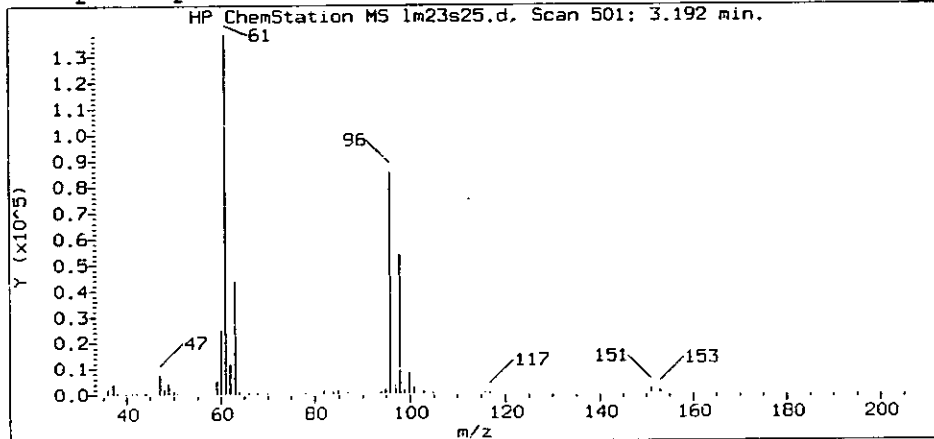
Reference Standard Spectrum for 1,1-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/1m23s25.d
Injection date and time: 23-MAR-2010 20:02

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 21:07 kdp02245

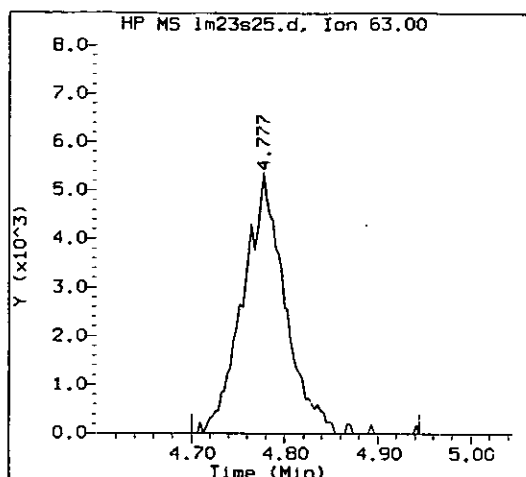
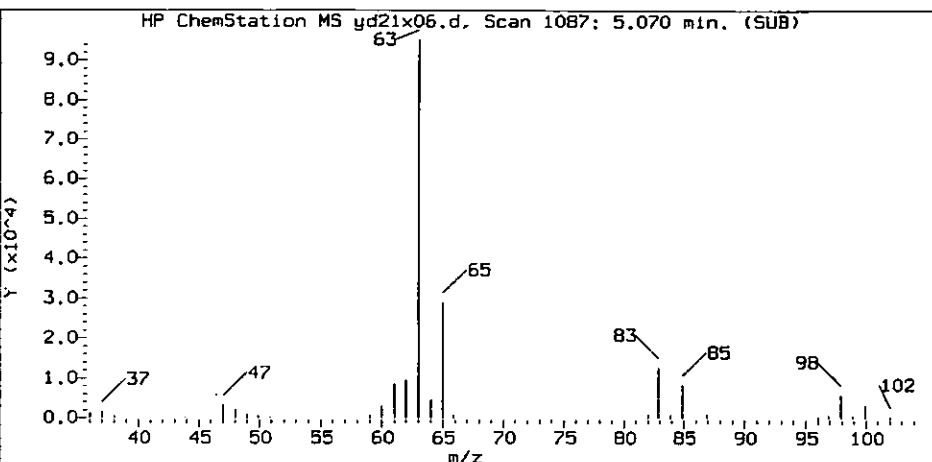
Sample Name: PA15D

Lab Sample ID: 5932506

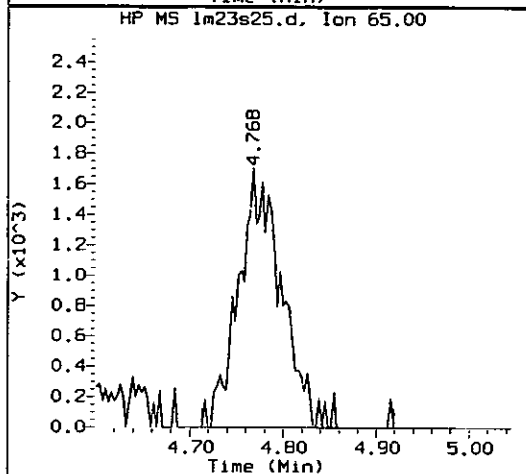
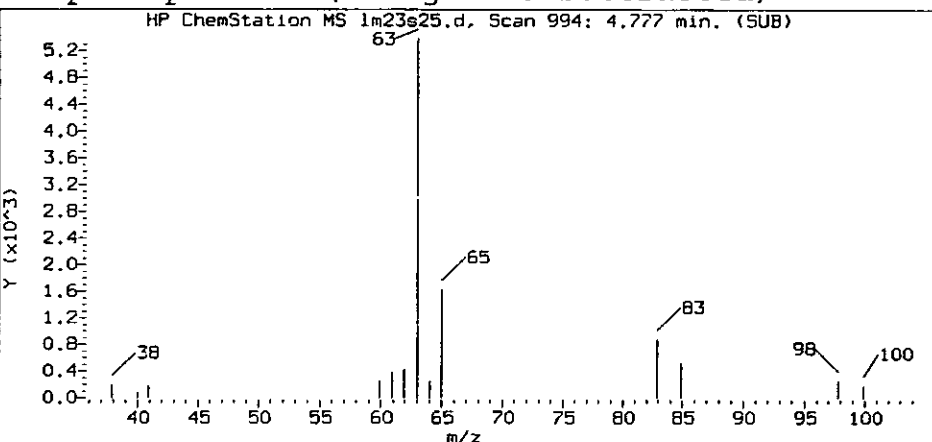
Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 501
Retention Time (minutes) : 3.192
Quant Ion : 96.0
Area (flag) : 228548
Concentration (ug/L) : 51.6372

PTL05 0100

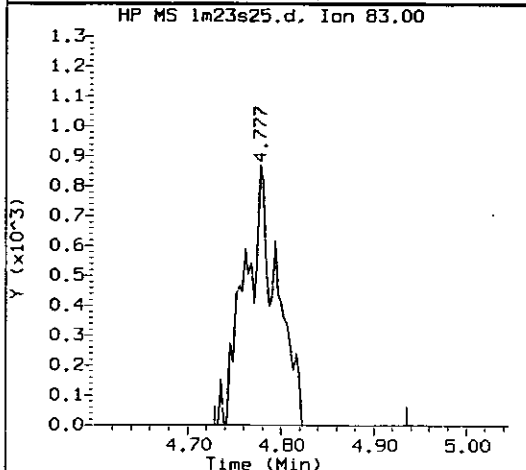
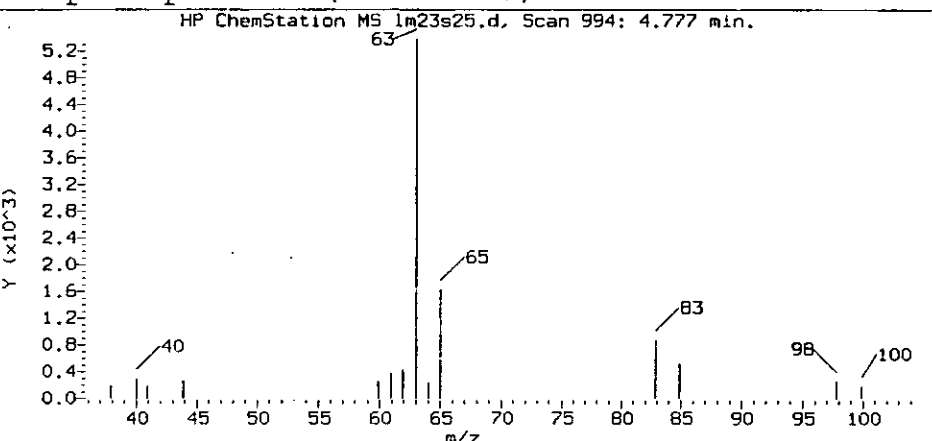
Reference Standard Spectrum for 1,1-Dichloroethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s25.d
Injection date and time: 23-MAR-2010 20:02

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 21:07 kdp02245

Sample Name: PA15D

Lab Sample ID: 5932506

Compound Number : 37
Compound Name : 1,1-Dichloroethane
Scan Number : 994
Retention Time (minutes) : 4.777
Quant Ion : 63.0
Area (flag) : 16865
Concentration (ug/L) : 1.7468

PTL05 0109

PA16S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932507

File: /chem/HP09915.1/10mar23a.b/lm23s13.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA16S;5932507;1;0; ; ; ; ; ; ; ;

Batch: L100821AA

Matrix: WATER

Injected At: 23-MAR-2010 16:02

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID: HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor: 1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.784(-0.010)	685	65	183879(7)	250.00	
72) Fluorobenzene	7.263(-0.003)	1767	96	1031759(-2)	50.00	
104) Chlorobenzene-d5	10.845(0.000)	2881	117	739083(-3)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	391908(-10)	50.00	

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.334(-0.001)	113	250305	49.519	99%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.797(0.000)	102	57603	49.401	99%		77 - 113
90) Toluene-d8	(2)	9.340(0.000)	98	988346	50.382	101%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.857(0.000)	95	357233	48.825	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* = PERCENT REC.OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
20) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
47) 2-Butanone	(1)				ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
50) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
56) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

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PTL85 0110

PA16S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932507

File: /chem/HP09915.1/10mar23a.b/lm23s13.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA16S;5932507;1;0;:::

Batch:L100821AA

Matrix: WATER

Injected At:23-MAR-2010 16:02

Analyst:LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code:38A

Target Compounds	I.S.			QIon	Area	Conc.	Conc.	Blank	Reporting	
	Ref.	RT	(+/-RRT)			(on column)	(in sample)	Conc.	Qual.	Limit LOQ
=====										
80) Dibromomethane	(1)					ND	ND			1.00 5.00
84) Bromodichloromethane	(1)					ND	ND			1.00 5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00 5.00
88) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00 10.00
93) Toluene	(2)					ND	ND			0.70 5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00 5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80 5.00
97) Tetrachloroethene	(2)					ND	ND			0.80 5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00 5.00
101) Dibromochloromethane	(2)					ND	ND			1.00 5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00 5.00
105) Chlorobenzene	(2)					ND	ND			0.80 5.00
106) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00 5.00
107) Ethylbenzene	(2)					ND	ND			0.80 5.00
108) m+p-Xylene	(2)					ND	ND			0.80 5.00
110) o-Xylene	(2)					ND	ND			0.80 5.00
111) Styrene	(2)					ND	ND			1.00 5.00
113) Bromoform	(2)					ND	ND			1.00 5.00
114) Isopropylbenzene	(2)					ND	ND			1.00 5.00
121) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00 5.00
122) Bromobenzene	(3)					ND	ND			1.00 5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00 5.00
125) n-Propylbenzene	(3)					ND	ND			1.00 5.00
127) 2-Chlorotoluene	(3)					ND	ND			1.00 5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL05 0111

File: /chem/HP09915.1/10mar23a.b/lm23s13.d

Sample: PA16S;5932507;1;0; ; ; ; ;

Injected At: 23-MAR-2010 16:02

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch:L100821AA

Analyst:LCP00895

Instrument ID:HP09915.1

Standard Reference: lm23c01.d

Prep Factor:1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

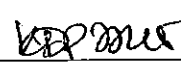
Bottle Code:38A

Target Compounds	I.S.		QIon	Area	Conc.	Conc.	Blank	Reporting		
	Ref.	RT (+/-RRT)			(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	
128) 1,3,5-Trimethylbenzene	(3)				ND	ND			1.00	5.00
129) 4-Chlorotoluene	(3)				ND	ND			1.00	5.00
131) tert-Butylbenzene	(3)				ND	ND			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)				ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)				ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)				ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)				ND	ND			1.00	5.00
139) 1,4-Dichlorobenzene	(3)				ND	ND			1.00	5.00
144) n-Butylbenzene	(3)				ND	ND			1.00	5.00
145) 1,2-Dichlorobenzene	(3)				ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)				ND	ND			2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)				ND	ND			1.00	5.00
149) Hexachlorobutadiene	(3)				ND	ND			2.00	5.00
150) Naphthalene	(3)				ND	ND			1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)				ND	ND			1.00	5.00

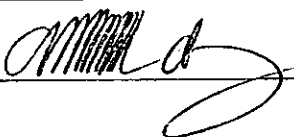
E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

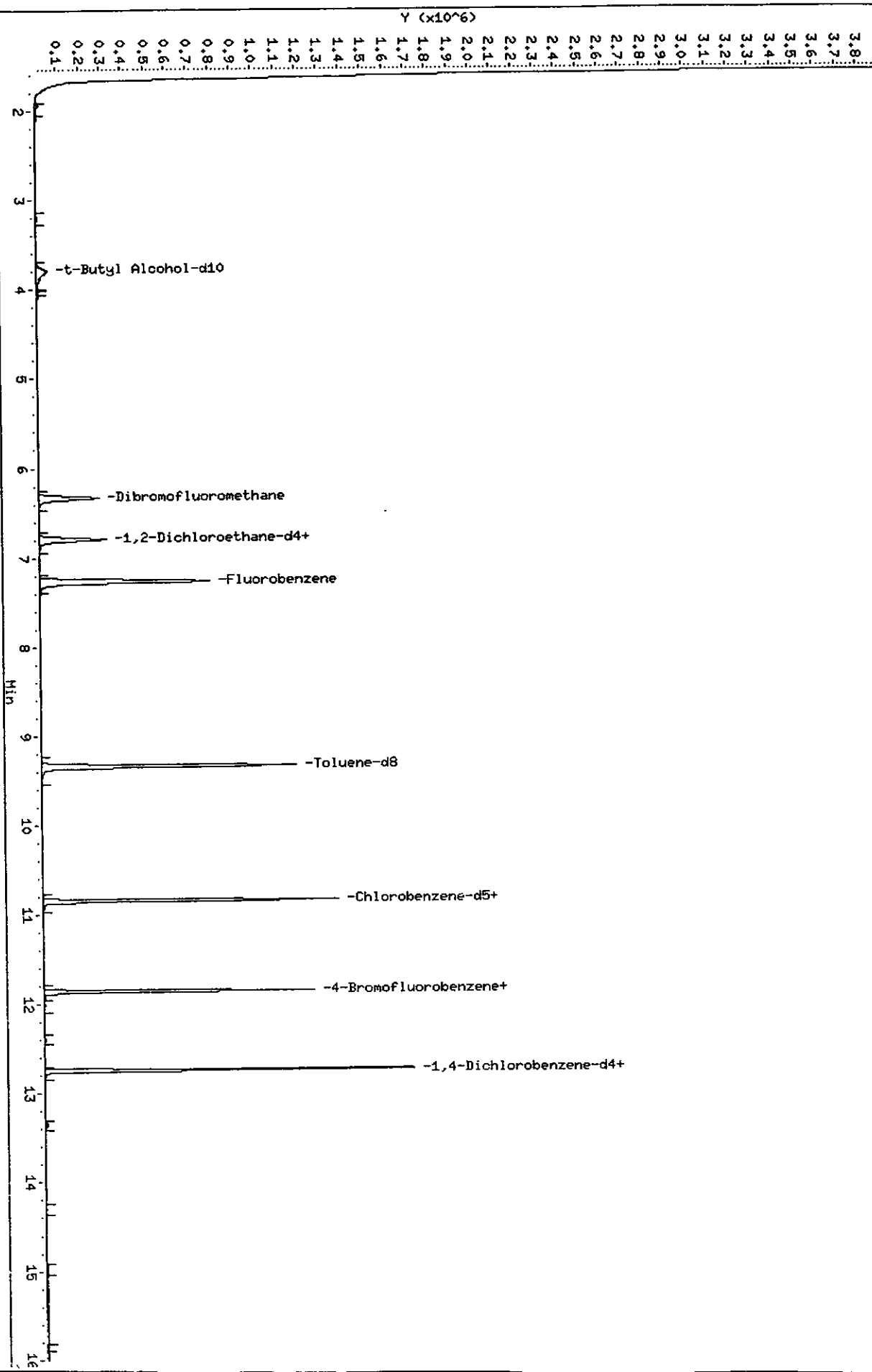
Comments:

Analyst: 

Date: 3/28/10

Auditor: 

Date: 3/28/10



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s13.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 16:02 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 18:38 kdp02245

Sample Name: PA16S

Lab Sample ID: 5932507

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
30)*t-Butyl Alcohol-d10	(4)	3.784	65	183879	250.000
72)*Fluorobenzene	(1)	7.263	96	1031759	50.000
104)*Chlorobenzene-d5	(2)	10.845	117	739083	50.000
138)*1,4-Dichlorobenzene-d4	(3)	12.745	152	391908	50.000
54)\$Dibromofluoromethane	(1)	6.334	113	250305	49.519
64)\$1,2-Dichloroethane-d4	(1)	6.797	102	57603	49.401
90)\$Toluene-d8	(2)	9.340	98	988346	50.382
119)\$4-Bromofluorobenzene	(2)	11.857	95	357233	48.825

* = Compound is an internal standard.

\$ = Compound is a surrogate standard.

5932508

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Matrix: WATER

Analyst: LCP00895

Level: Low

Instrument ID: HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Standard Reference: 1m23c01.d

Volume Purged: 5.0 ml (Vt)

Prep Factor:1.00

Bottle Code: 38A

Sublist: MWH

Units: ug/L

Internal Standards	RT(+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ext)	QC Flag
=====	=====	====	====	=====	=====	=====
30) t-Butyl Alcohol-d10	3.803(-0.029)	691	65	165310(-4)	250.00	
72) Fluorobenzene	7.269(-0.010)	1769	96	950267(-10)	50.00	
104) Chlorobenzene-d5	10.848(-0.003)	2882	117	681944(-10)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	369566(-15)	50.00	

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S.		QIon	Area	Conc.	%Rec.	QC	QC Limits
	Ref.	RT (+/-RRT)			(on column)		flags	
=====	=====		=====	=====	=====	=====	=====	=====
54) Dibromofluoromethane	(1)	6.337(-0.001)	113	231378	49.700	99%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.800(0.000)	102	52146	48.556	97%		77 - 113
90) Toluene-d8	(2)	9.343(0.000)	98	910272	50.290	101%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.857(0.000)	95	332433	49.242	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* = PERCENT REC.OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)					ND	ND			2.00	5.00
3) Chloromethane	(1)					ND	ND			1.00	5.00
4) Vinyl Chloride	(1)					ND	ND			1.00	5.00
7) Bromomethane	(1)					ND	ND			1.00	5.00
9) Chloroethane	(1)					ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)					ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)					ND	ND			0.80	5.00
20) Acetone	(1)					ND	ND			6.00	20.00
29) Methylene Chloride	(1)					ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)					ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)					ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)					ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)					ND	ND			0.80	5.00
47) 2-Butanone	(1)					ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)					ND	ND			1.00	5.00
50) Bromochloromethane	(1)					ND	ND			1.00	5.00
53) Chloroform	(1)					ND	ND			0.80	5.00
56) 1,1,1-Trichloroethane	(1)					ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)					ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)					ND	ND			1.00	5.00
67) Benzene	(1)					ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)					ND	ND			1.00	5.00
76) Trichloroethene	(1)					ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)					ND	ND			1.00	5.00

E * CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 1 of 3

PTLOS 6115

PATD1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932508

File: /chem/HP09915.i/10mar23a.b/lm23s14.d
Sample: PATD1;5932508;1;0;:::
Injected At: 23-MAR-2010 16:24
Calibration Time: 17-FEB-2010 21:34
Target Method: L8260W.m
Blank Reference: lm23b02.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: L100821AA Matrix: WATER
Analyst: LCP00895 Level: Low
Instrument ID: HP09915.1 Sample Wt./Vol.: 5.0000 ml (Vo)
Standard Reference: lm23c01.d Volume Purged: 5.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code: 38A

Target Compounds	I.S.		QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting		
	Ref.	RT (+/-RRT)						Qual.	Limit	LOQ
80) Dibromomethane	(1)				ND	ND			1.00	5.00
84) Bromodichloromethane	(1)				ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)				ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)				ND	ND			3.00	10.00
93) Toluene	(2)				ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)				ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)				ND	ND			0.80	5.00
97) Tetrachloroethene	(2)				ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)				ND	ND			1.00	5.00
101) Dibromochloromethane	(2)				ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)				ND	ND			1.00	5.00
105) Chlorobenzene	(2)				ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)				ND	ND			1.00	5.00
107) Ethylbenzene	(2)				ND	ND			0.80	5.00
108) m+p-Xylene	(2)				ND	ND			0.80	5.00
110) o-Xylene	(2)				ND	ND			0.80	5.00
111) Styrene	(2)				ND	ND			1.00	5.00
113) Bromoform	(2)				ND	ND			1.00	5.00
114) Isopropylbenzene	(2)				ND	ND			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)				ND	ND			1.00	5.00
122) Bromobenzene	(3)				ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)				ND	ND			1.00	5.00
125) n-Propylbenzene	(3)				ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL05 0116

File: /chem/HP09915.i/10mar23a.b/lm23s14.d

Sample: PATD1;5932508;1;0;;;

Injected At:23-MAR-2010 16:24

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: 1m23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID:HP09915.1

Standard Reference: 1m23c01.d

Prep Factor:1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code: 38A

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====					=====	=====	=====	=====		
128) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
129) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
131) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
139) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
144) n-Butylbenzene	(3)					ND	ND			1.00	5.00
145) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
149) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
150) Naphthalene	(3)					ND	ND			1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E * CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: Est. am Date: 5/4/50

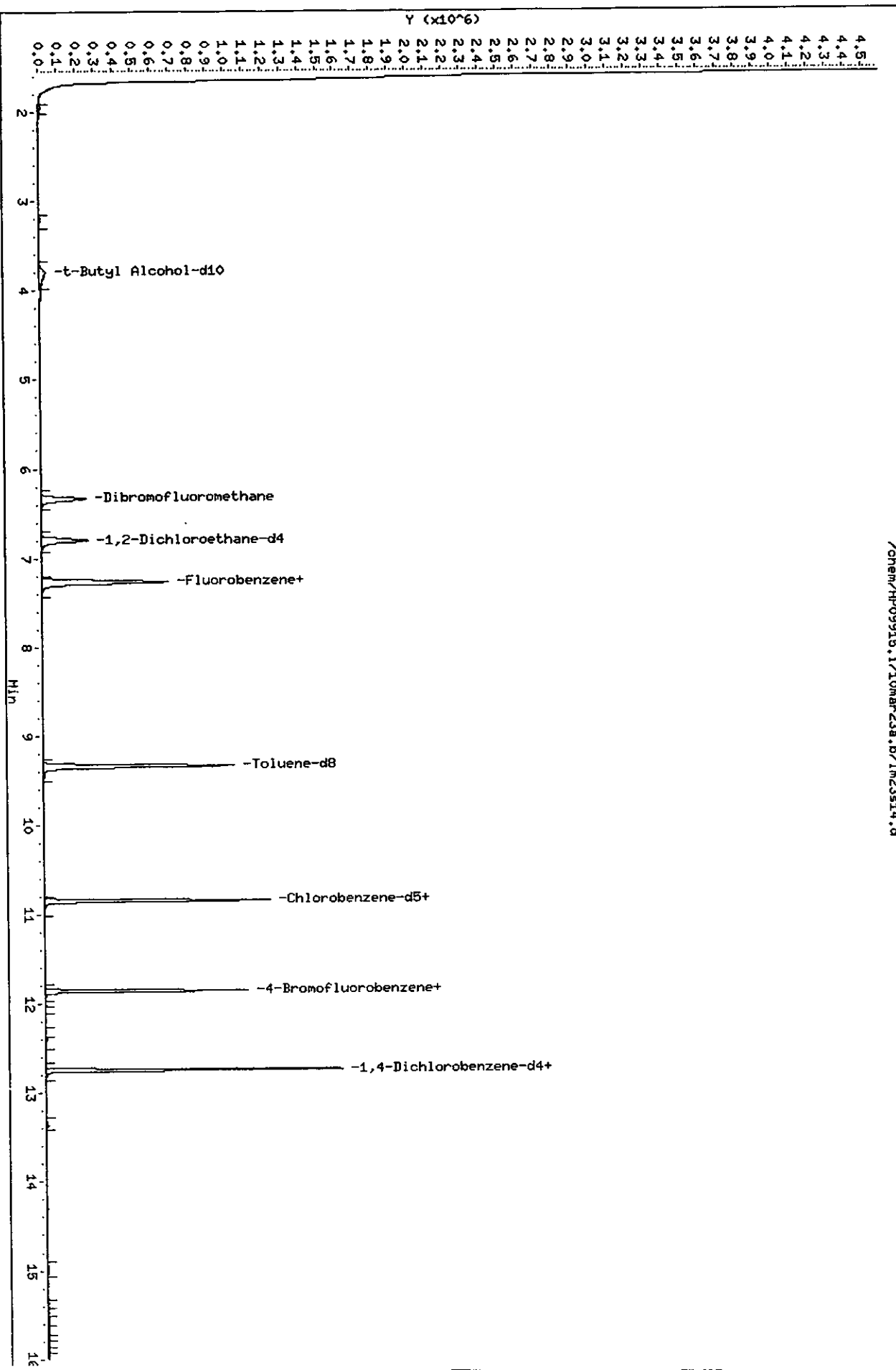
Auditor:  Date: 3/20/10

Data File: /chem/HP0915.i/10mar23a.b/1m23s14.d
Date: 23-MAR-2010 16:24
Client ID: PATD1
Sample Info: PATD1;5932508;1;0;:::;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP0915.i
Operator: LCP00895
Column diameter: 0.25

Handwritten: mps21/23/04

PTL85 6118



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s14.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 16:24 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 18:39 kdp02245
Sample Name: PATD1 Lab Sample ID: 5932508

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
30)*t-Butyl Alcohol-d10	(4)	3.803	65	165310	250.000
72)*Fluorobenzene	(1)	7.269	96	950267	50.000
104)*Chlorobenzene-d5	(2)	10.848	117	681944	50.000
138)*1,4-Dichlorobenzene-d4	(3)	12.745	152	369566	50.000
54)\$Dibromofluoromethane	(1)	6.337	113	231378	49.700
64)\$1,2-Dichloroethane-d4	(1)	6.800	102	52146	48.556
90)\$Toluene-d8	(2)	9.343	98	910272	50.290
119)\$4-Bromofluorobenzene	(2)	11.857	95	332433	49.242

* = Compound is an internal standard.

\$ = Compound is a surrogate standard.

File: /chem/HP09915.i/10mar23a.b/lm23a15.d
Sample: PA17D;5932509;1;0; ; ; ; ;
Injected At: 23-MAR-2010 16:46
Calibration Time: 17-FEB-2010 21:34
Target Method: L8260W.m
Blank Reference: lm23b02.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L100S21AA Matrix: WATER
Analyst:LCP00895 Level: Low
Instrument ID:HP09915.i Sample Wt./Vol.: 5.0000 ml (Vo)
Standard Reference: lm23c01.d Volume Purged: 5.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area (+/- %Area)	Conc(ext)	QC Flag
=====	=====	====	====	=====	=====	=====
30) t-Butyl Alcohol-d10	3.797(-0.023)	689	65	172567(1)	250.00	
72) Fluorobenzene	7.273(-0.013)	1770	96	987010(-7)	50.00	
104) Chlorobenzene-d5	10.845(0.000)	2881	117	708876(-7)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	383058(-12)	50.00	

* RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S.		QIon	Area	Conc.	%Rec.	QC	QC Limits
	Ref.	RT (+/-RRT)			(on column)		flags	
=====	=====	=====	=====	=====	=====	=====	=====	=====
54) Dibromofluoromethane	(1)	6.340 (-0.001)	113	242087	50.064	100%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.797 (0.001)	102	55423	49.686	99%		77 - 113
90) Toluene-d8	(2)	9.343 (0.000)	98	941080	50.017	100%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.858 (0.000)	95	347311	49.492	99%		76 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting		
	Ref.	RT	(+/-RRT)	QIon	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)	3.205	(-0.001)	96	349305	72.429	72.43		0.80	5.00
20) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)	4.784	(-0.001)	63	16224	1.542	1.54	J	1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
47) 2-Butanone	(1)				ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
50) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
56) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Page 1 of 3

PTL05 0128

PA17D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932509

File: /chem/HP09915.1/10mar23a.b/lm23s15.d

Sample: PA17D;5932509;1;0;:::;

Injected At:23-MAR-2010 16:46

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch:L100821AA

Analyst:LCP00895

Instrument ID:HP09915.1

Standard Reference: lm23c01.d

Prep Factor:1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting		
									Qual.	Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
101) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
107) Ethylbenzene	(2)					ND	ND			0.80	5.00
108) m+p-Xylene	(2)					ND	ND			0.80	5.00
110) o-Xylene	(2)					ND	ND			0.80	5.00
111) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
114) Isopropylbenzene	(2)					ND	ND			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL05 0121

File: /chem/HP09915.i/10mar23a.b/lm23s15.d

Sample: PA17D;5932509;1;0;:::;;

Injected At:23-MAR-2010 16:46

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: 1m23b02.d

Sublist: MNH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID:HP09915.1

Standard Reference: lm23c01.d

Prep Factor:1.00

Units: ug/L

Matrix: WATER

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code: 38A

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====					=====	=====	=====	=====	=====	=====
128) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
129) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
131) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
139) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
144) n-Butylbenzene	(3)					ND	ND			1.00	5.00
145) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
149) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
150) Naphthalene	(3)					ND	ND			1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

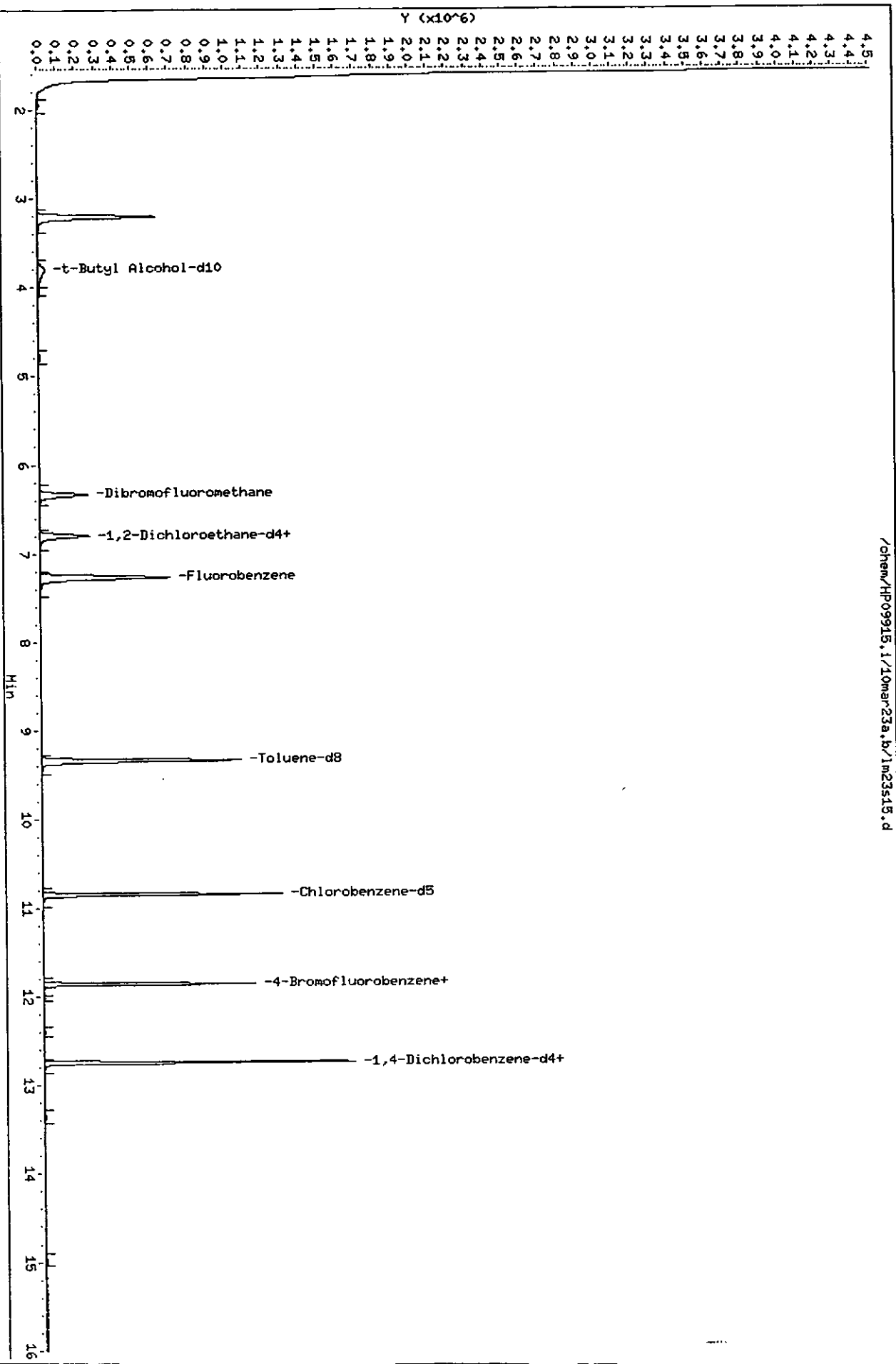
Analyst: _____ Date: 5/2/68

Auditor: Chinnai Date: 2/2/10

Column phase: DB-624

Column diameter: 0.25

Page 1



Quant Report

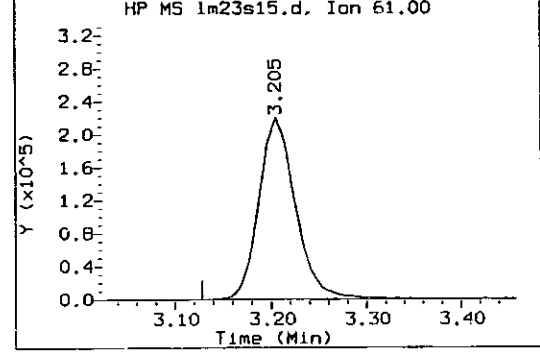
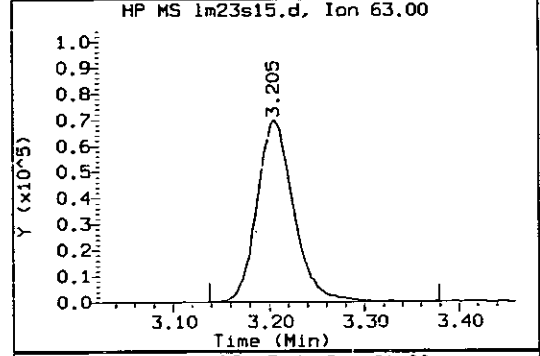
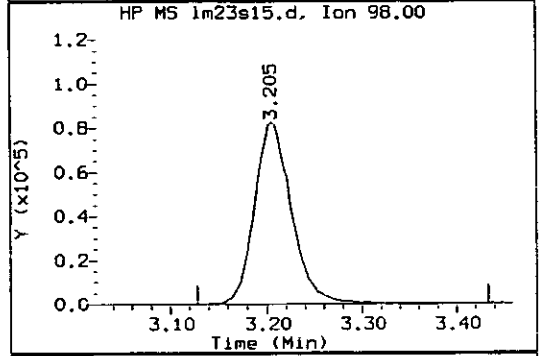
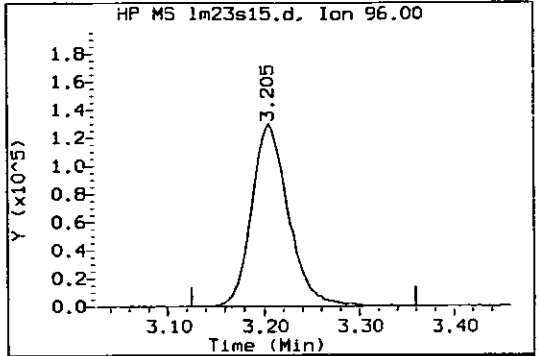
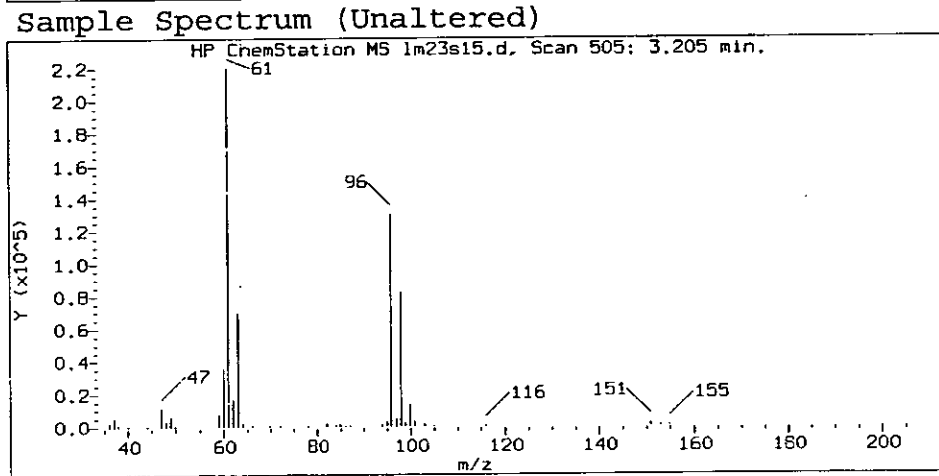
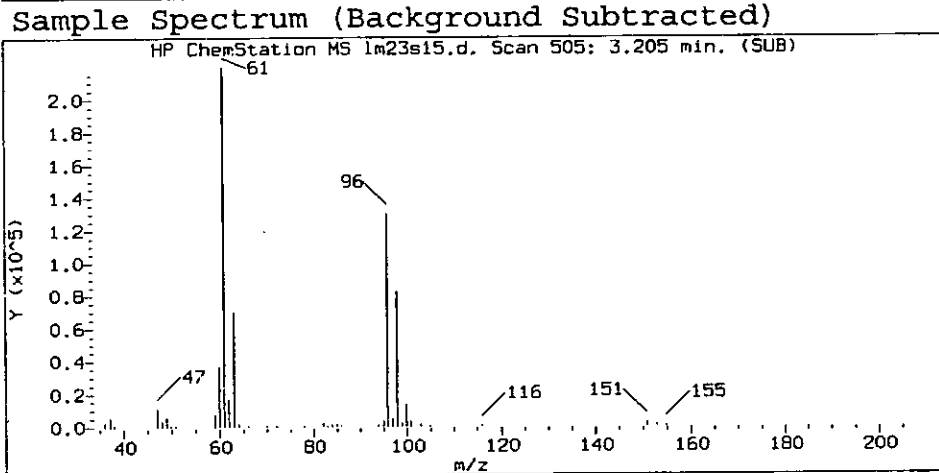
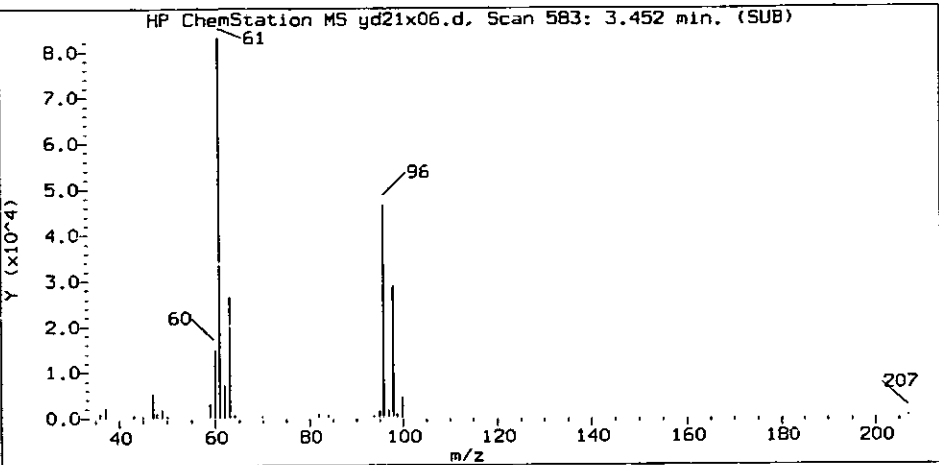
Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s15.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 16:46 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 18:40 kdp02245
Sample Name: PA17D Lab Sample ID: 5932509

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
17) 1,1-Dichloroethene	(1)	3.205	96	349305	72.429
30) *t-Butyl Alcohol-d10	(4)	3.797	65	172567	250.000
37) 1,1-Dichloroethane	(1)	4.784	63	16224	1.542
72) *Fluorobenzene	(1)	7.273	96	987010	50.000
104) *Chlorobenzene-d5	(2)	10.845	117	708876	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	383058	50.000
54) \$Dibromofluoromethane	(1)	6.340	113	242087	50.064
64) \$1,2-Dichloroethane-d4	(1)	6.797	102	55423	49.686
90) \$Toluene-d8	(2)	9.343	98	941080	50.017
119) \$4-Bromofluorobenzene	(2)	11.858	95	347311	49.492

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

Reference Standard Spectrum for 1,1-Dichloroethene

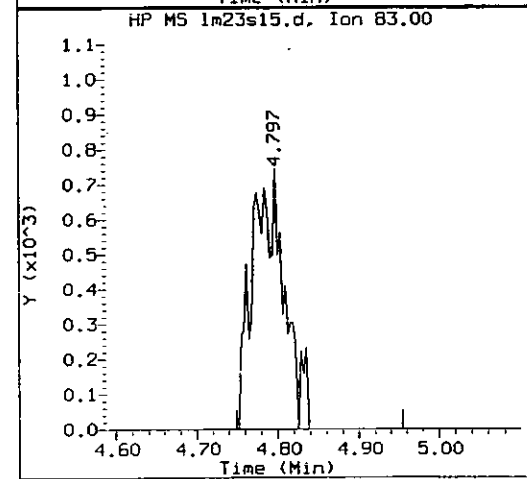
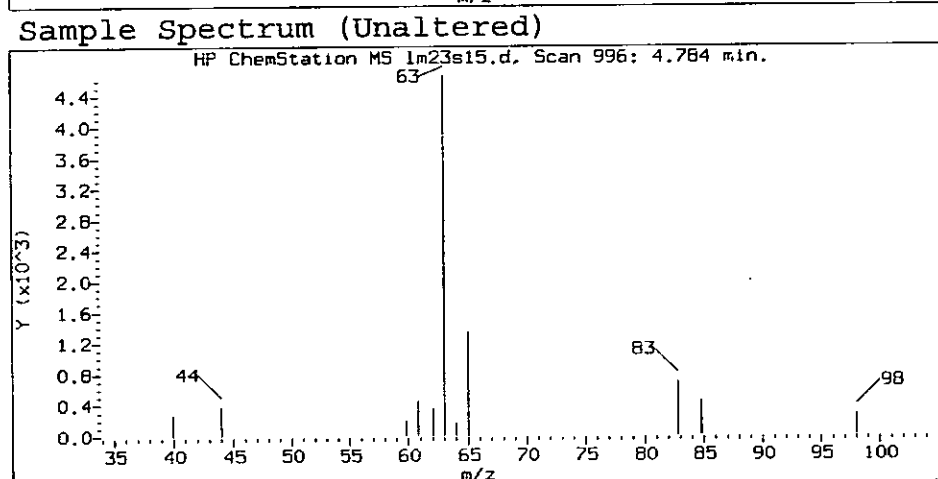
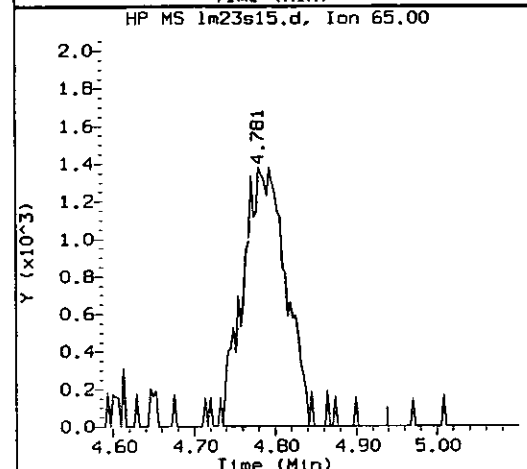
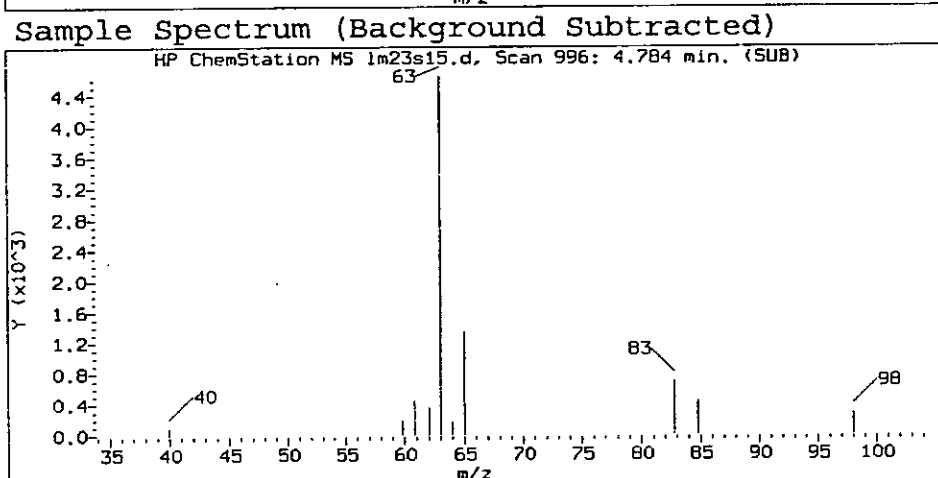
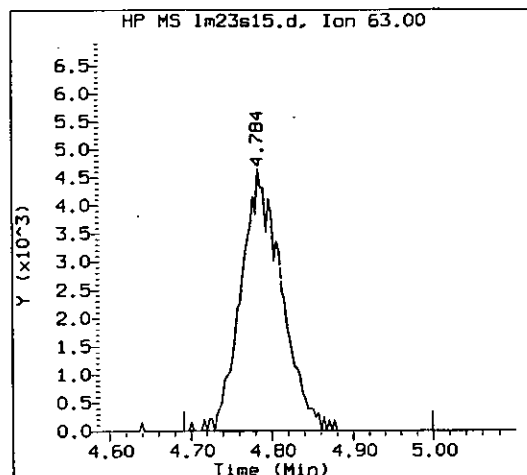
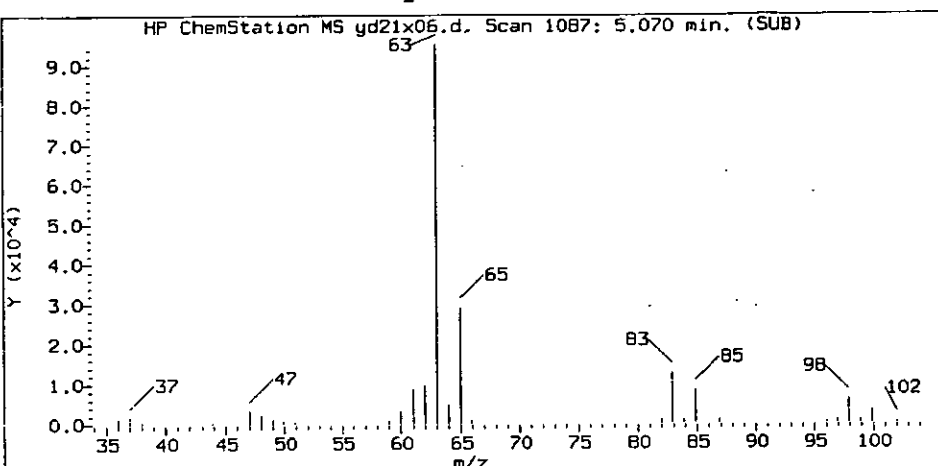


Data File: /chem/HP09915.i/10mar23a.b/lm23s15.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 16:46 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 18:40 kdp02245
Sample Name: PA17D Lab Sample ID: 5932509

Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 505
Retention Time (minutes) : 3.205
Quant Ion : 96.0
Area (flag) : 349305
Concentration (ug/L) : 72.4291

PTL05 8125

Reference Standard Spectrum for 1,1-Dichloroethane



Data File: /chem/HP09915.i/10mar23a.b/lm23s15.d
Injection date and time: 23-MAR-2010 16:46

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 18:40 kdp02245

Sample Name: PA17D

Lab Sample ID: 5932509

Compound Number : 37
Compound Name : 1,1-Dichloroethane
Scan Number : 996
Retention Time (minutes) : 4.784
Quant Ion : 63.0
Area (flag) : 16224
Concentration (ug/L) : 1.5422

PTL05 0126

PA18S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932510

File: /chem/HP09915.i/10mar23a.b/lm23s16.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA18S;5932510;1;0;:::

Batch: L100821AA

Matrix: WATER

Injected At: 23-MAR-2010 17:07

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID: HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor: 1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
=====	=====	=====	=====	=====	=====	=====
30) t-Butyl Alcohol-d10	3.806(-0.032)	692	65	178140(4)	250.00	
72) Fluorobenzene	7.269(-0.010)	1769	96	987571(-7)	50.00	
104) Chlorobenzene-d5	10.845(0.000)	2881	117	712028(-6)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	381742(-12)	50.00	

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
=====	=====	=====	=====	=====	=====	=====	=====	=====
54) Dibromofluoromethane	(1)	6.337(-0.001)	113	243117	50.249	100%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.797(0.001)	102	56114	50.277	101%		77 - 113
90) Toluene-d8	(2)	9.340(0.000)	98	945076	50.007	100%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.857(0.000)	95	346748	49.193	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* = PERCENT REC.OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)	3.202(-0.001)	96	130587	27.062	27.06			0.80	5.00
20) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)	4.784(-0.001)	63	20832	1.979	1.98		J	1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
47) 2-Butanone	(1)				ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
50) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
56) 1,1,1-Trichloroethane	(1)	6.375(0.000)	97	11690	1.223	1.22		J	0.80	5.00
60) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 1 of 3

PTE85 8127

File: /chem/HP09915.i/10mar23a.b/lm23s16.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA18S;5932510;1;0;;;;;

Batch: L100821AA

Matrix: WATER

Injected At:23-MAR-2010 17:07

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: 1m23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Target Compounds	I.S.		QIon	Area	Conc.	Conc.	Blank	Reporting		
	Ref.	RT (+/-RRT)			(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	
80) Dibromomethane	(1)				ND	ND			1.00	5.00
84) Bromodichloromethane	(1)				ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)				ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)				ND	ND			3.00	10.00
93) Toluene	(2)				ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)				ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)				ND	ND			0.80	5.00
97) Tetrachloroethene	(2)				ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)				ND	ND			1.00	5.00
101) Dibromochloromethane	(2)				ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)				ND	ND			1.00	5.00
105) Chlorobenzene	(2)				ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)				ND	ND			1.00	5.00
107) Ethylbenzene	(2)				ND	ND			0.80	5.00
108) m+p-Xylene	(2)				ND	ND			0.80	5.00
110) o-Xylene	(2)				ND	ND			0.80	5.00
111) Styrene	(2)				ND	ND			1.00	5.00
113) Bromoform	(2)				ND	ND			1.00	5.00
114) Isopropylbenzene	(2)				ND	ND			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)				ND	ND			1.00	5.00
122) Bromobenzene	(3)				ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)				ND	ND			1.00	5.00
125) n-Propylbenzene	(3)				ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

File: /chem/HP09915.i/10mar23a.b/lm23s16.d

Sample Concentration Formula: $\text{On-Column Amount} \cdot (V_t/V_o)$

Sample: PA18S;5932510;1;0;;;;;

Batch: L100821AA

Matrix: WATER

Injected At:23-MAR-2010 17:07

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: 1m23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: 1m23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Target Compounds	I.S.	Conc.	Conc.	Blank	Reporting	
	Ref. RT (+/-RRT) QIon Area (on column) (in sample) Conc. Qual. Limit LOQ					
128) 1,3,5-Trimethylbenzene	(3)	ND	ND			1.00 5.00
129) 4-Chlorotoluene	(3)	ND	ND			1.00 5.00
131) tert-Butylbenzene	(3)	ND	ND			1.00 5.00
133) 1,2,4-Trimethylbenzene	(3)	ND	ND			1.00 5.00
134) sec-Butylbenzene	(3)	ND	ND			1.00 5.00
135) 1,3-Dichlorobenzene	(3)	ND	ND			1.00 5.00
136) p-Isopropyltoluene	(3)	ND	ND			1.00 5.00
139) 1,4-Dichlorobenzene	(3)	ND	ND			1.00 5.00
144) n-Butylbenzene	(3)	ND	ND			1.00 5.00
145) 1,2-Dichlorobenzene	(3)	ND	ND			1.00 5.00
146) 1,2-Dibromo-3-Chloropropane	(3)	ND	ND			2.00 5.00
148) 1,2,4-Trichlorobenzene	(3)	ND	ND			1.00 5.00
149) Hexachlorobutadiene	(3)	ND	ND			2.00 5.00
150) Naphthalene	(3)	ND	ND			1.00 5.00
152) 1,2,3-Trichlorobenzene	(3)	ND	ND			1.00 5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

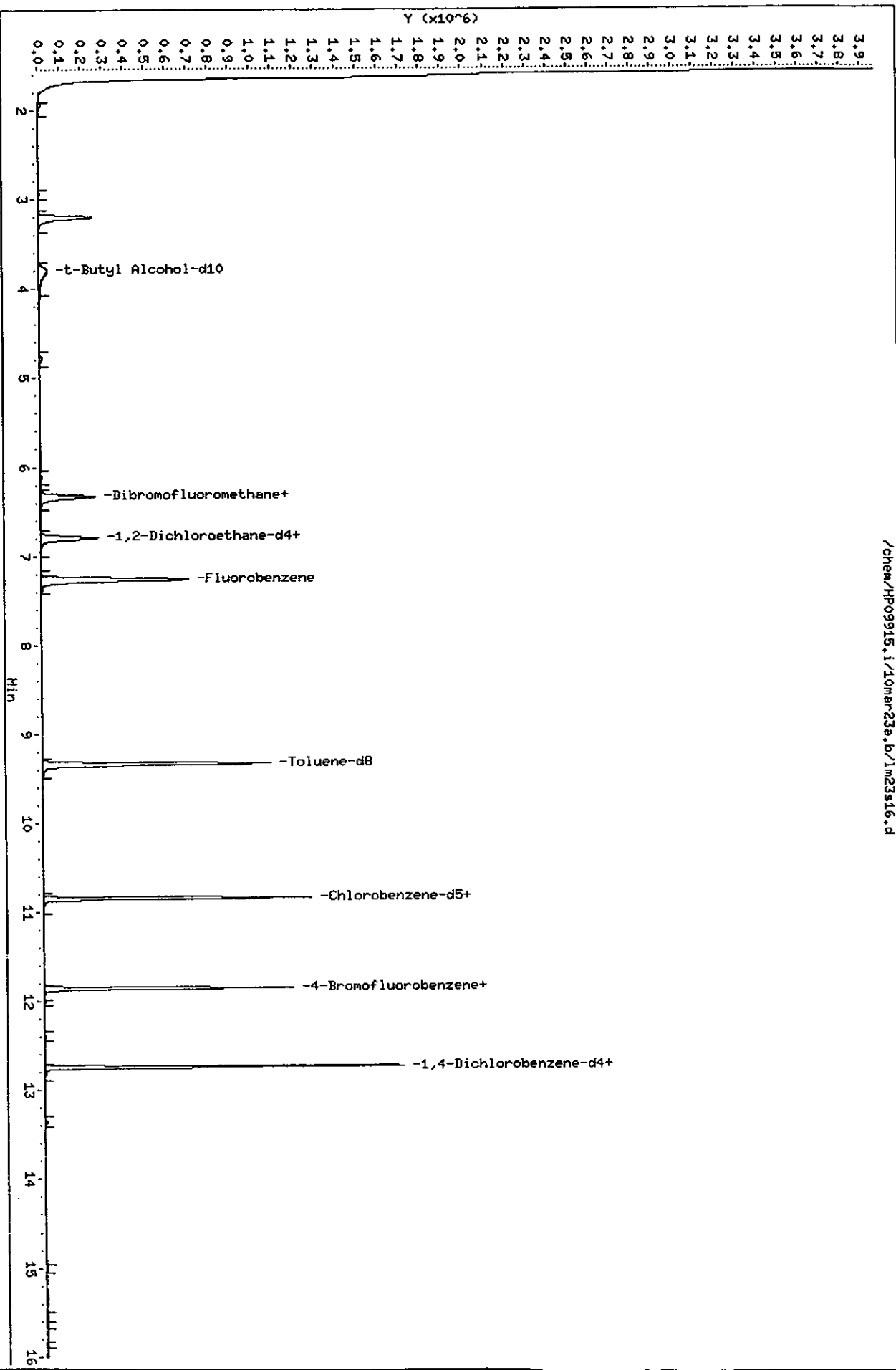
Analyst: W. J. [Signature] Date: 5/10/68

Auditor: _____ Date: _____

Column phase: DB-624

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Page 1



Quant Report

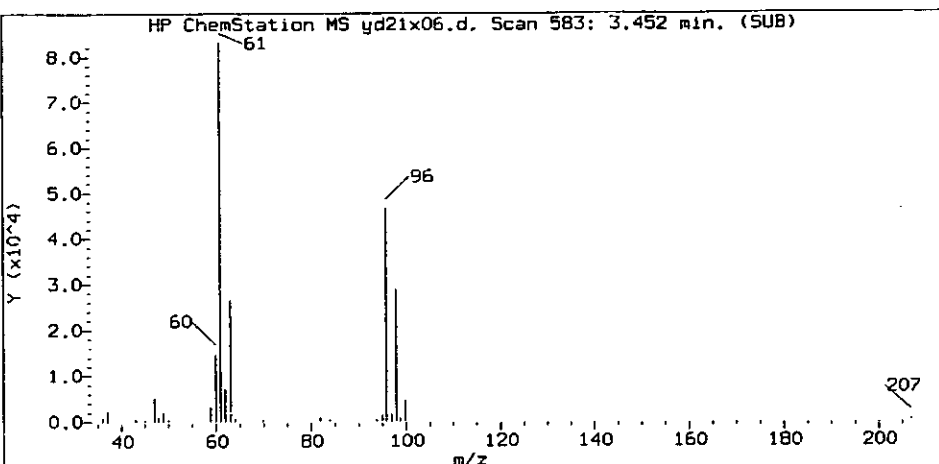
Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s16.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 17:07 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 17:26 Automation
Sample Name: PA18S Lab Sample ID: 5932510

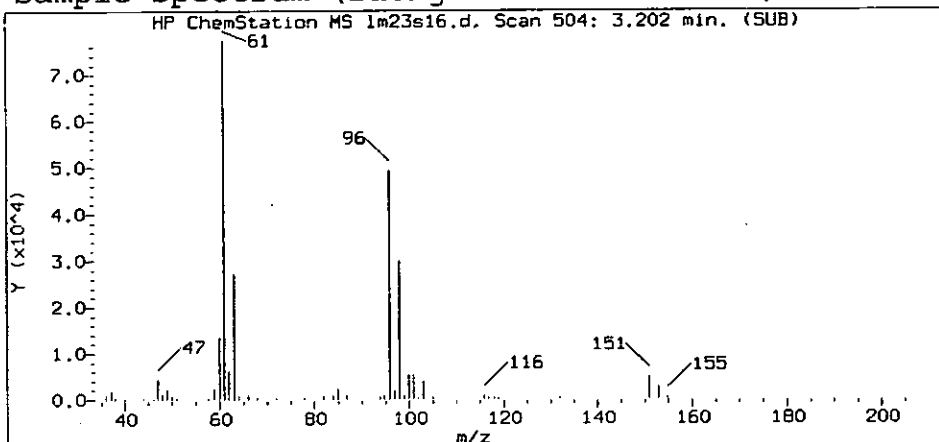
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
17) 1,1-Dichloroethene	(1)	3.202	96	130587	27.062
30) *t-Butyl Alcohol-d10	(4)	3.806	65	178140	250.000
37) 1,1-Dichloroethane	(1)	4.784	63	20832	1.979
56) 1,1,1-Trichloroethane	(1)	6.375	97	11690	1.223
72) *Fluorobenzene	(1)	7.269	96	987571	50.000
104) *Chlorobenzene-d5	(2)	10.845	117	712028	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	381742	50.000
54) \$Dibromofluoromethane	(1)	6.337	113	243117	50.249
64) \$1,2-Dichloroethane-d4	(1)	6.797	102	56114	50.277
90) \$Toluene-d8	(2)	9.340	98	945076	50.007
119) \$4-Bromofluorobenzene	(2)	11.857	95	346748	49.193

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

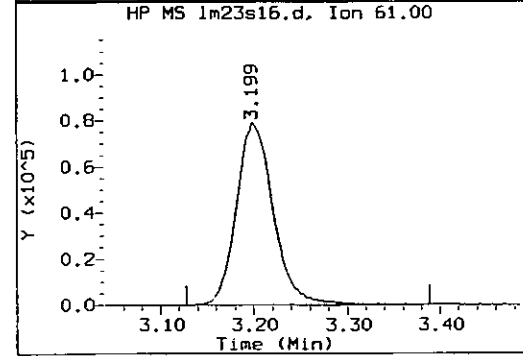
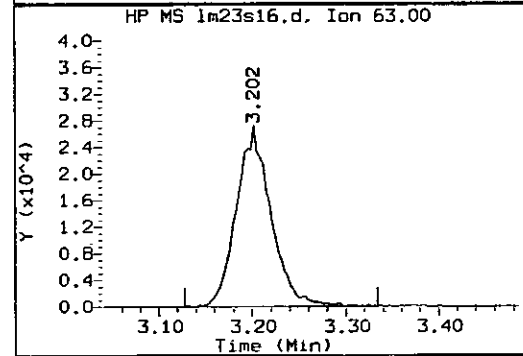
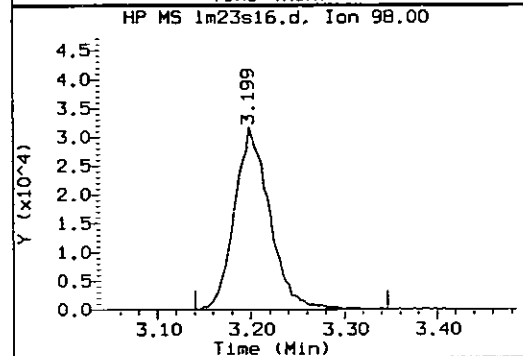
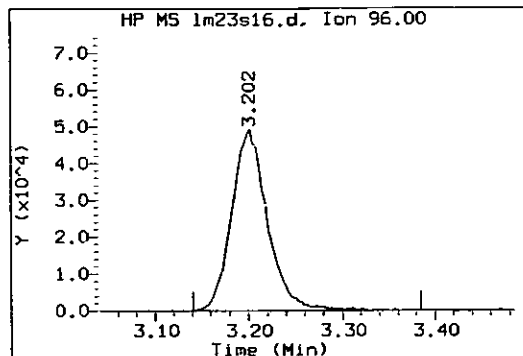
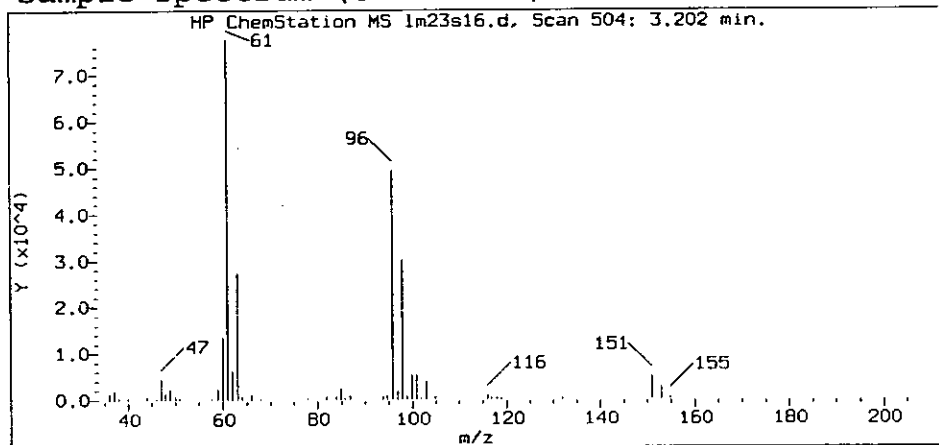
Reference Standard Spectrum for 1,1-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s16.d
Injection date and time: 23-MAR-2010 17:07

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 17:26 Automation

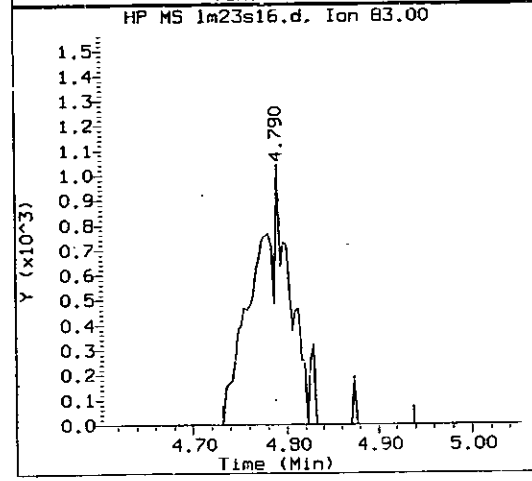
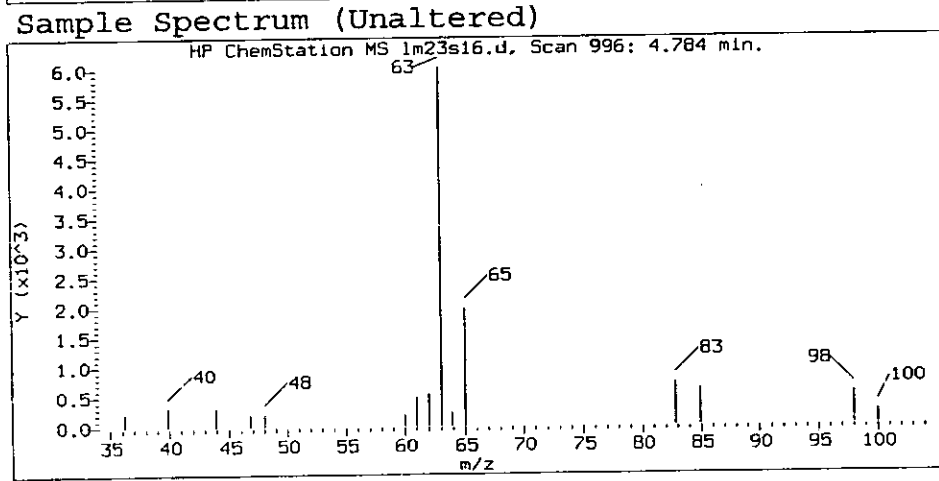
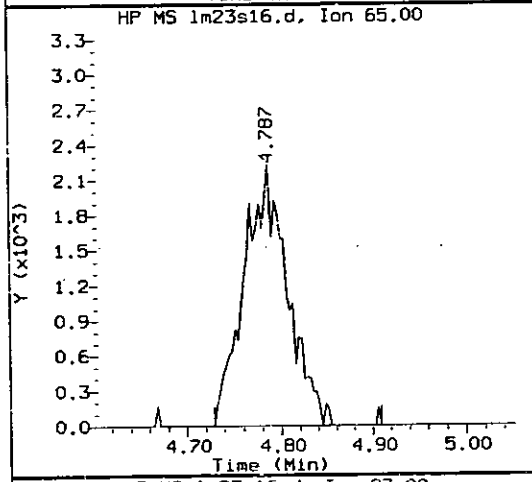
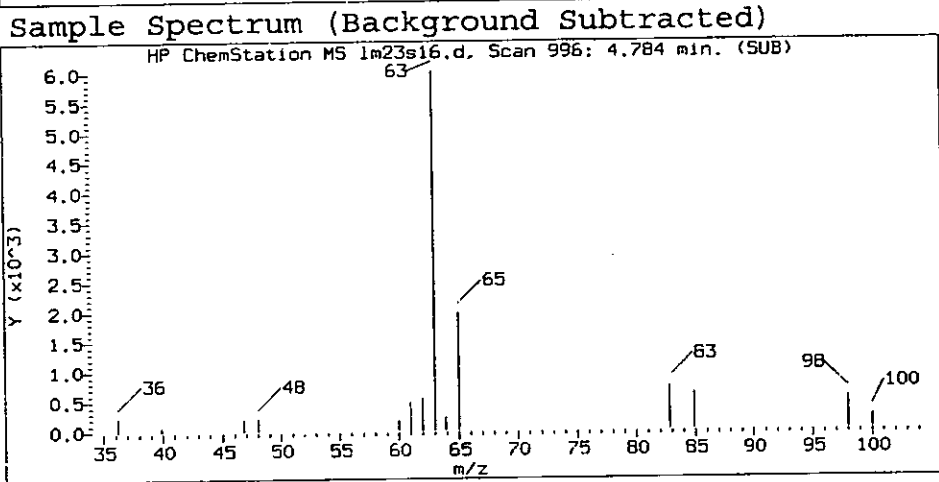
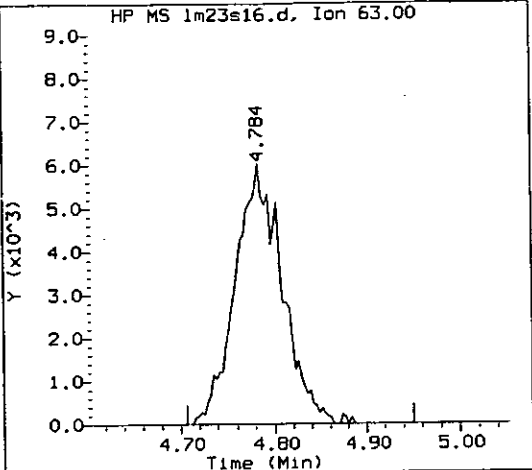
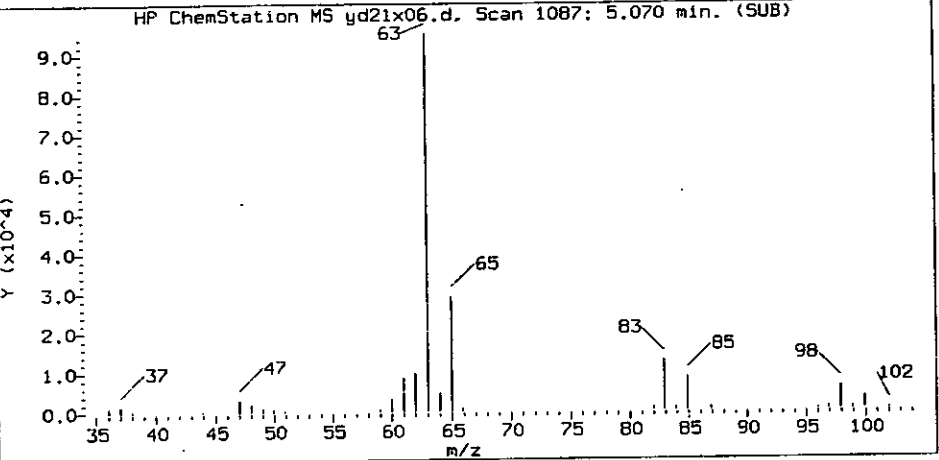
Sample Name: PA18S

Lab Sample ID: 5932510

Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 504
Retention Time (minutes): 3.202
Quant Ion : 96.0
Area (flag) : 130587
Concentration (ug/L) : 27.0622

PTL05 0132

Reference Standard Spectrum for 1,1-Dichloroethane



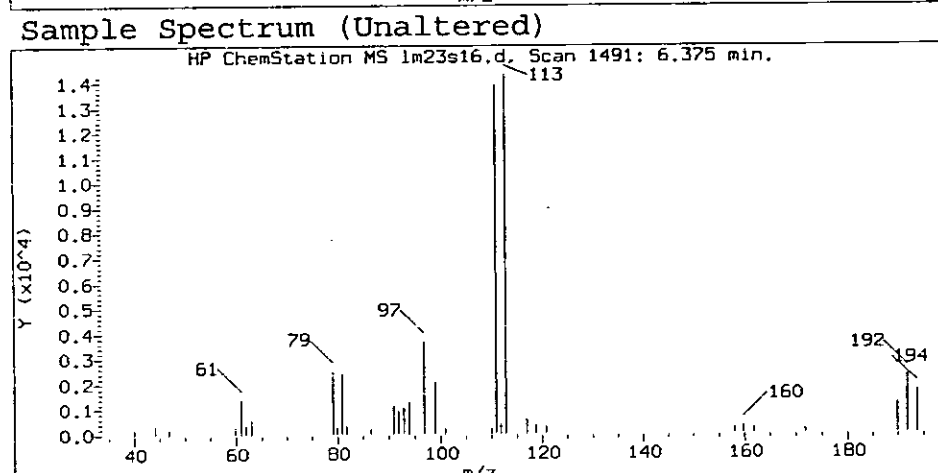
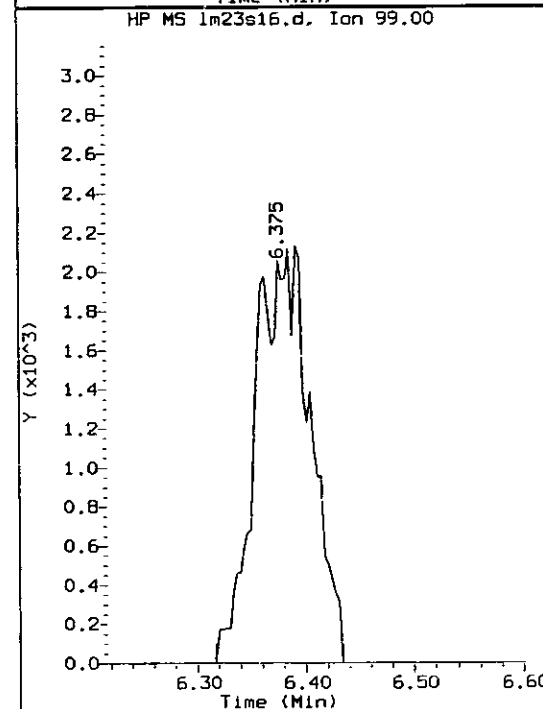
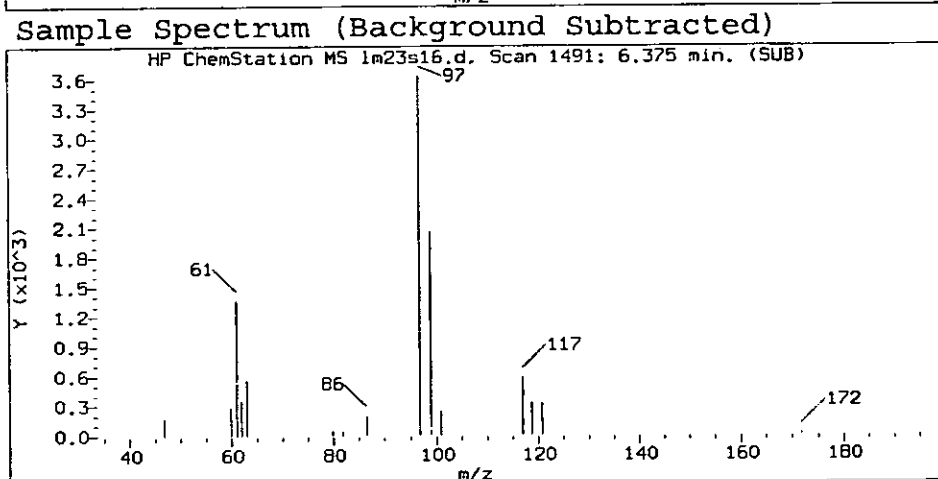
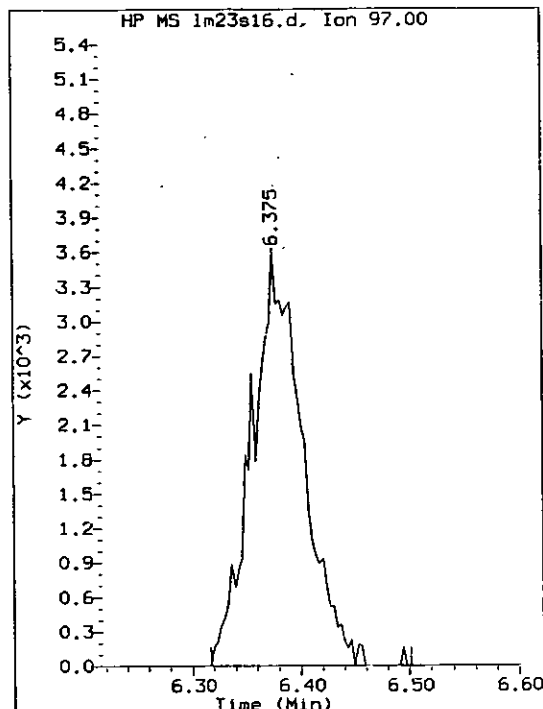
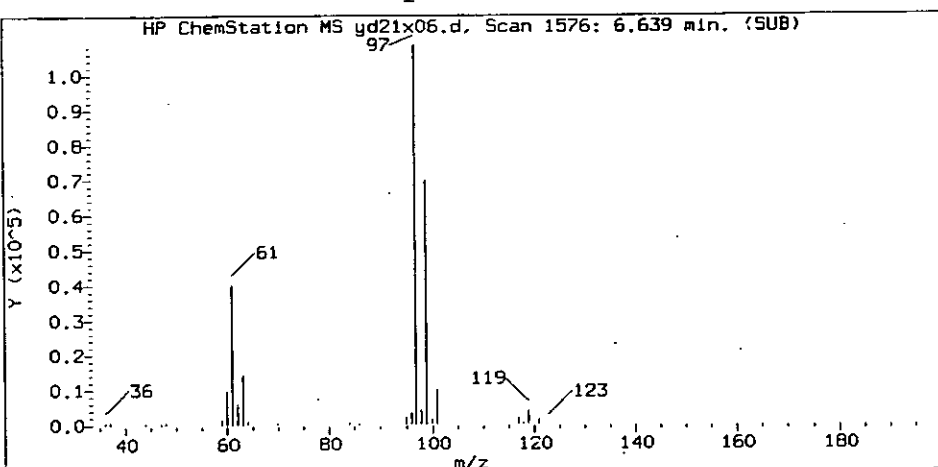
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Injection date and time: 23-MAR-2010 17:07 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 17:26 Automation

Sample Name: PA18S Lab Sample ID: 5932510

Compound Number : 37
Compound Name : 1,1-Dichloroethane
Scan Number : 996
Retention Time (minutes) : 4.784
Quant Ion : 63.0
Area (flag) : 20832
Concentration (ug/L) : 1.9791

PTL05 0133

Reference Standard Spectrum for 1,1,1-Trichloroethane



Data File: /chem/HP09915.i/10mar23a.b/lm23s16.d
Injection date and time: 23-MAR-2010 17:07

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 17:26 Automation

Sample Name: PA18S

Lab Sample ID: 5932510

Compound Number : 56
Compound Name : 1,1,1-Trichloroethane
Scan Number : 1491
Retention Time (minutes) : 6.375
Quant Ion : 97.0
Area (flag) : 11690
Concentration (ug/L) : 1.2233

PTL05 0134

5932511

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L10C821AA

Matrix: WATER

Analyst: LCP00895

Level: Low

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Standard Reference: 1m23c01.d

Volume Purged: 5.0 ml (Vt)

Prep Factor:1.00

Bottle Code:38A

Sublist: MWH

Units: ug/L

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
=====	=====	=====	=====	=====	=====	=====
30) t-Butyl Alcohol-d10	3.790 (-0.016)	687	65	167832 (-2)	250.00	
72) Fluorobenzene	7.266 (-0.006)	1768	96	949162 (-10)	50.00	
104) Chlorobenzene-d5	10.845 (0.000)	2881	117	683011 (-10)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745 (0.000)	3472	152	365427 (-16)	50.00	

* RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S.			QIon	Area	Conc.	%Rec.	QC	QC Limits
	Ref.	RT	(+/-RRT)			(on column)		flags	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
54) Dibromofluoromethane	(1)	6.334	(-0.001)	113	231199	49.719	99%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.797	(0.000)	102	53464	49.841	100%		77 - 113
90) Toluene-d8	(2)	9.340	(0.000)	98	912234	50.320	101%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.857	(0.000)	95	331968	49.097	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* * PERCENT REC.OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)					ND	ND			2.00	5.00
3) Chloromethane	(1)					ND	ND			1.00	5.00
4) Vinyl Chloride	(1)					ND	ND			1.00	5.00
7) Bromomethane	(1)					ND	ND			1.00	5.00
9) Chloroethane	(1)					ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)					ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)	3.199	(-0.001)	96	153354	33.066	33.07			0.80	5.00
20) Acetone	(1)					ND	ND			6.00	20.00
29) Methylene Chloride	(1)					ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)					ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)					ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)	4.777	(-0.001)	63	18163	1.795	1.80		J	1.00	5.00
44) cis-1,2-Dichloroethene	(1)					ND	ND			0.80	5.00
47) 2-Butanone	(1)					ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)					ND	ND			1.00	5.00
50) Bromochloromethane	(1)					ND	ND			1.00	5.00
53) Chloroform	(1)					ND	ND			0.80	5.00
56) 1,1,1-Trichloroethane	(1)					ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)					ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)					ND	ND			1.00	5.00
67) Benzene	(1)					ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)					ND	ND			1.00	5.00
76) Trichloroethene	(1)					ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

PA18D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932511

File: /chem/HP09915.i/10mar23a.b/lm23s17.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA18D;5932511;1;0;:::;

Batch:L100821AA

Matrix: WATER

Injected At:23-MAR-2010 17:29

Analyst:LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.i

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
101) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
107) Ethylbenzene	(2)					ND	ND			0.80	5.00
108) m+p-Xylene	(2)					ND	ND			0.80	5.00
110) o-Xylene	(2)					ND	ND			0.80	5.00
111) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
114) Isopropylbenzene	(2)					ND	ND			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL05 0136

File: /chem/HP09915.i/10mar23a.b/lm23s17.d

Sample: PA18D;5932511;1;0;:::;;

Injected At:23-MAR-2010 17:29

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: 1m23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID:HP09915.1

Standard Reference: lm23c01.d

Prep Factor:1.00

Units: ug/L

Matrix: WATER

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code: 38A

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
128) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
129) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
131) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
139) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
144) n-Butylbenzene	(3)					ND	ND			1.00	5.00
145) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
149) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
150) Naphthalene	(3)					ND	ND			1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: _____ Date: 5/6

Auditor: William C. [Signature] Date: 7/1

Chromatogram showing peaks for various compounds. The x-axis is labeled 'Min' and ranges from 2 to 16. The y-axis is labeled 'Y (x10^6)' and ranges from 0.0 to 3.0. Peaks are labeled with compound names:

- t-Butyl Alcohol-d10
- Dibromofluoromethane+
- 1,2-Dichloroethane-d4
- Fluorobenzene+
- Toluene-d8+
- Chlorobenzene-d5
- 4-Bromofluorobenzene+
- 1,4-Dichlorobenzene-d4+

Quant Report

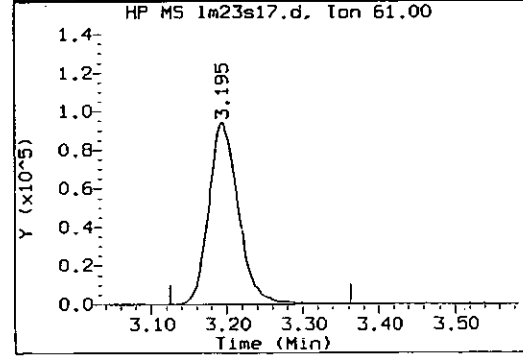
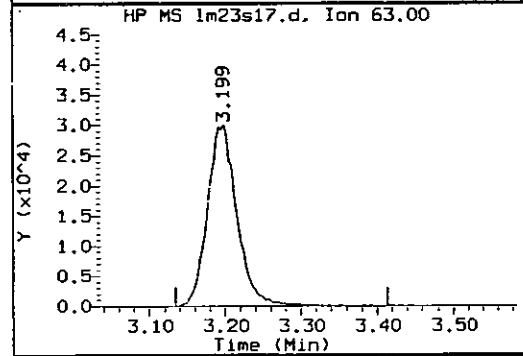
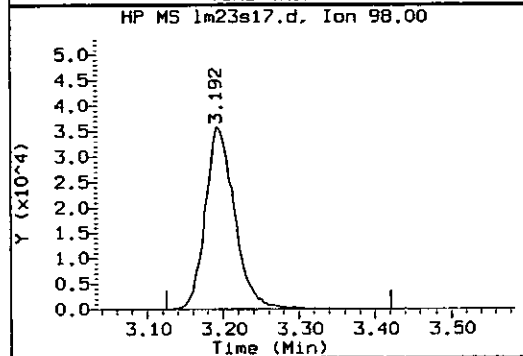
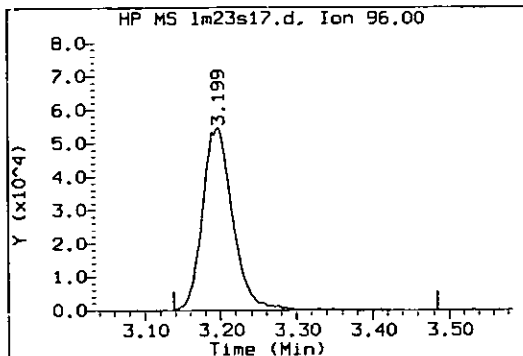
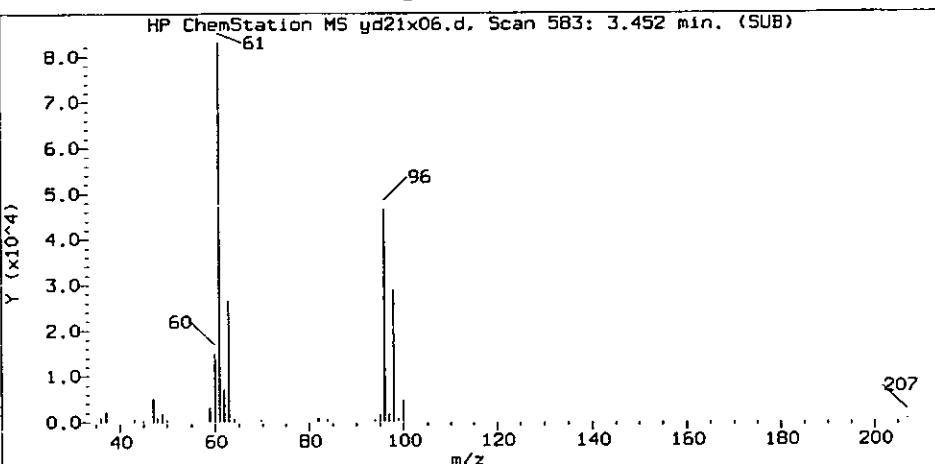
Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s17.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 17:29 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 18:42 kdp02245
Sample Name: PA18D Lab Sample ID: 5932511

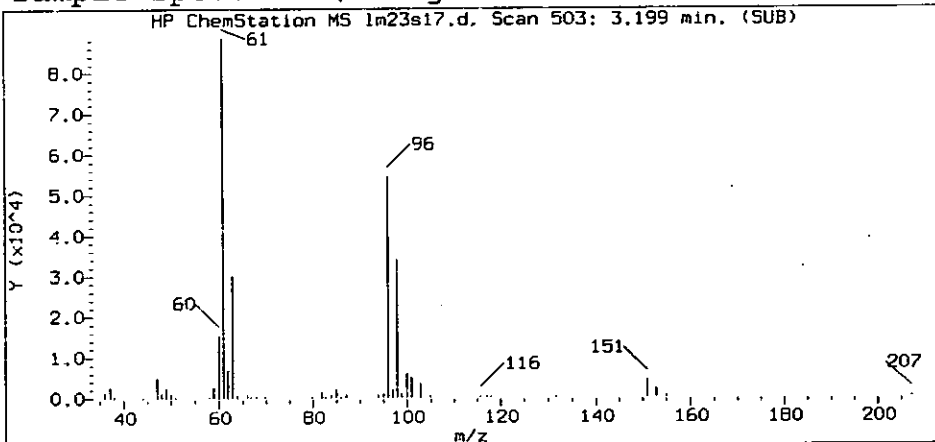
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
17) 1,1-Dichloroethene	(1)	3.199	96	153354	33.066
30) *t-Butyl Alcohol-d10	(4)	3.790	65	167832	250.000
37) 1,1-Dichloroethane	(1)	4.777	63	18163	1.795
72) *Fluorobenzene	(1)	7.266	96	949162	50.000
104) *Chlorobenzene-d5	(2)	10.845	117	683011	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	365427	50.000
54) \$Dibromofluoromethane	(1)	6.334	113	231199	49.719
64) \$1,2-Dichloroethane-d4	(1)	6.797	102	53464	49.841
90) \$Toluene-d8	(2)	9.340	98	912234	50.320
119) \$4-Bromofluorobenzene	(2)	11.857	95	331968	49.097

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

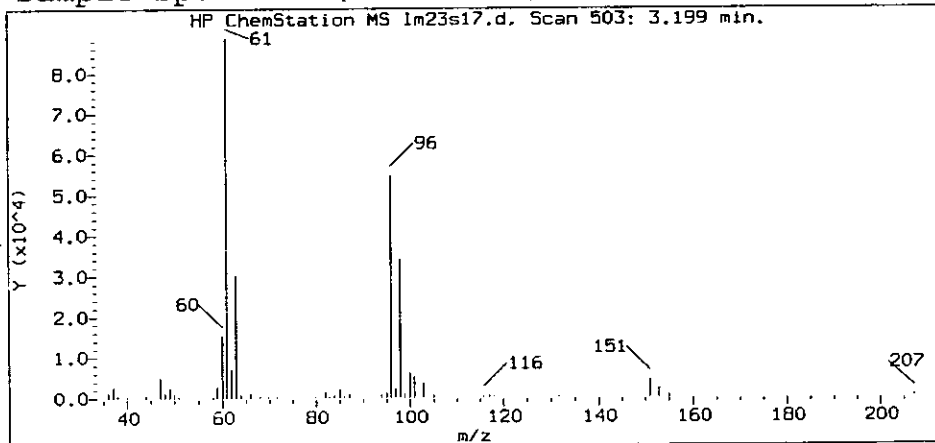
Reference Standard Spectrum for 1,1-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/1m23s17.d
Injection date and time: 23-MAR-2010 17:29

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 18:42 kdp02245

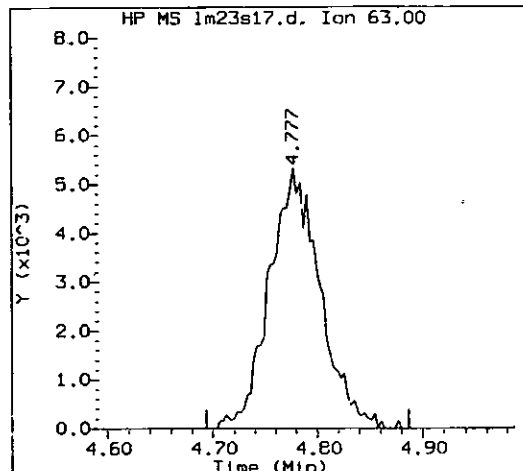
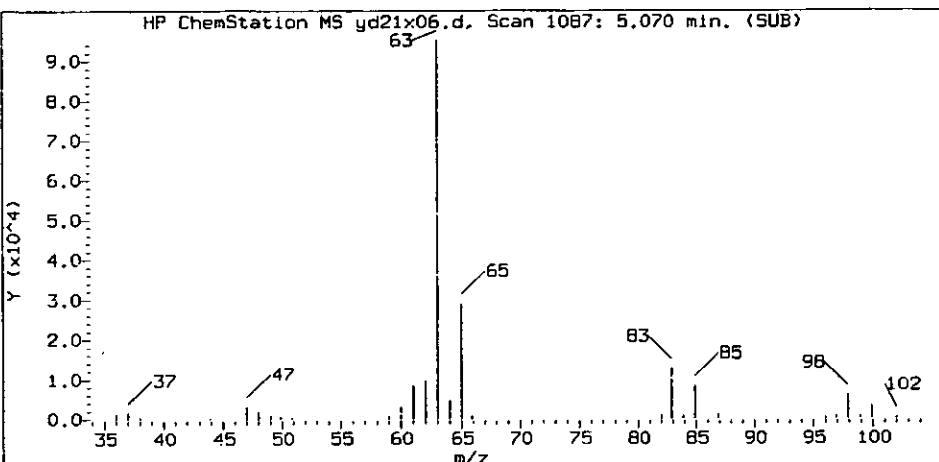
Sample Name: PA18D

Lab Sample ID: 5932511

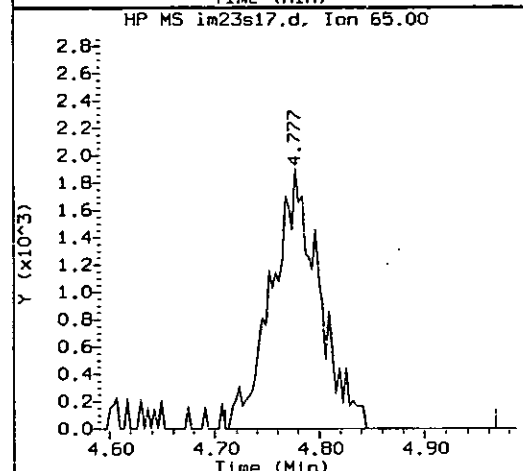
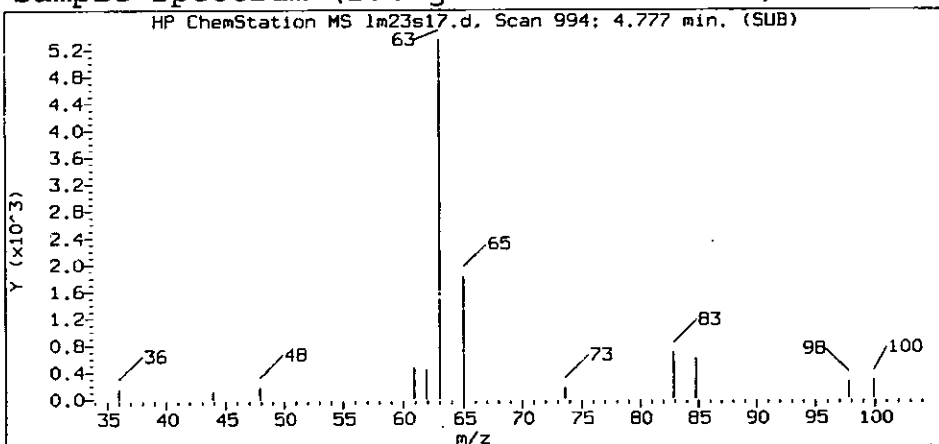
Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 503
Retention Time (minutes) : 3.199
Quant Ion : 96.0
Area (flag) : 153354
Concentration (ug/L) : 33.0662

PTL05 0140

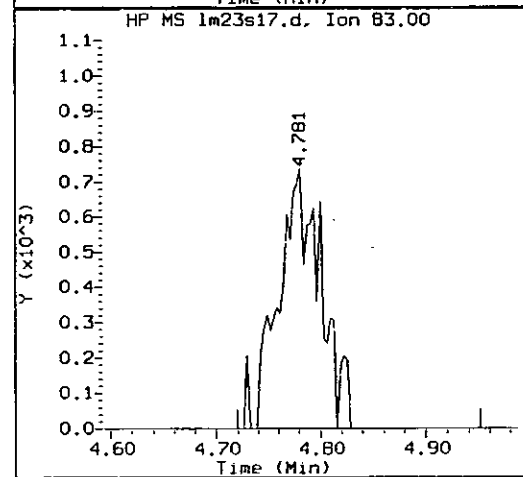
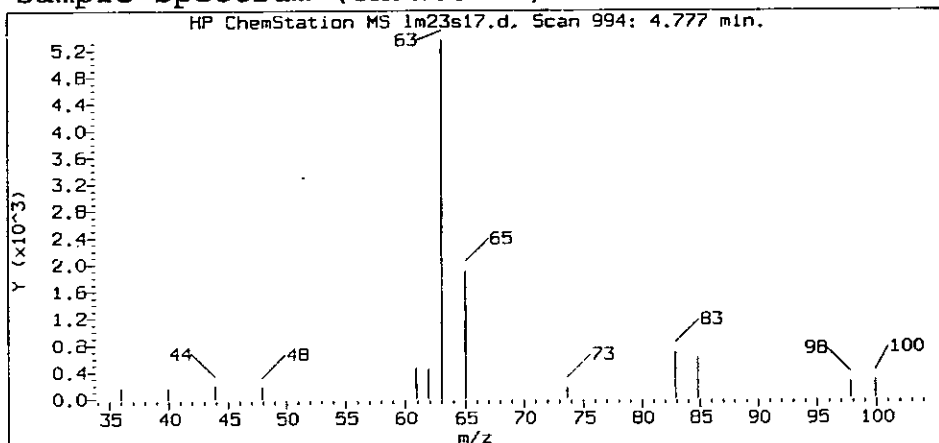
Reference Standard Spectrum for 1,1-Dichloroethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s17.d
Injection date and time: 23-MAR-2010 17:29

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 18:42 kdp02245

Sample Name: PA18D

Lab Sample ID: 5932511

Compound Number : 37
Compound Name : 1,1-Dichloroethane
Scan Number : 994
Retention Time (minutes) : 4.777
Quant Ion : 63.0
Area (flag) : 18163
Concentration (ug/L) : 1.7954

PTL05 0141

PAEB2

File: /chem/HP09915.1/10mar23a.b/lm23s04.d

Sample: PAEB2;5932512;1;0; ; ; ; ; ; ;

Injected At: 23-MAR-2010 12:45

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID: HP09915.1

Standard Reference: lm23c01.d

Prep Factor: 1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code: 38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.806(-0.032)	692	65	179591(5)	250.00	
72) Fluorobenzene	7.269(-0.010)	1769	96	1056759(0)	50.00	
104) Chlorobenzene-d5	10.848(-0.003)	2882	117	765770(1)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	413305(-5)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.337(-0.001)	113	260105	50.240	100%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.800(0.000)	102	59295	49.649	99%		77 - 113
90) Toluene-d8	(2)	9.340(0.000)	98	1014202	49.898	100%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.857(0.000)	95	370106	48.822	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
20) Acetone	(1)	3.244(-0.003)	43	41346	13.775	13.78		J	6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
47) 2-Butanone	(1)				ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
50) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)	6.112(0.000)	83	23464	2.156	2.16		J	0.80	5.00
56) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

File: /chem/HP09915.i/10mar23a.b/lm23s04.d
Sample: PAEB2;5932512;1;0; ; ; ; ;
Injected At: 23-MAR-2010 12:45
Calibration Time: 17-FEB-2010 21:34
Target Method: L8260W.m
Blank Reference: lm23b02.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: L100821AA
Analyst: LCP00895
Instrument ID: HP09915.1
Standard Reference: lm23c01.d
Prep Factor: 1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code: 38A

Target Compounds	I.S.		QIon	Area	Conc.	Conc.	Blank	Reporting	
	Ref.	RT (+/-RRT)			(on column)	(in sample)	Conc.	Qual.	Limit LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
80) Dibromomethane	(1)				ND	ND		1.00	5.00
84) Bromodichloromethane	(1)				ND	ND		1.00	5.00
87) cis-1,3-Dichloropropene	(1)				ND	ND		1.00	5.00
88) 4-Methyl-2-Pentanone	(1)				ND	ND		3.00	10.00
93) Toluene	(2)				ND	ND		0.70	5.00
94) trans-1,3-Dichloropropene	(2)				ND	ND		1.00	5.00
96) 1,1,2-Trichloroethane	(2)				ND	ND		0.80	5.00
97) Tetrachloroethene	(2)				ND	ND		0.80	5.00
98) 1,3-Dichloropropane	(2)				ND	ND		1.00	5.00
101) Dibromochloromethane	(2)				ND	ND		1.00	5.00
103) 1,2-Dibromoethane	(2)				ND	ND		1.00	5.00
105) Chlorobenzene	(2)				ND	ND		0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)				ND	ND		1.00	5.00
107) Ethylbenzene	(2)				ND	ND		0.80	5.00
108) m+p-Xylene	(2)				ND	ND		0.80	5.00
110) o-Xylene	(2)				ND	ND		0.80	5.00
111) Styrene	(2)				ND	ND		1.00	5.00
113) Bromoform	(2)				ND	ND		1.00	5.00
114) Isopropylbenzene	(2)				ND	ND		1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)				ND	ND		1.00	5.00
122) Bromobenzene	(3)				ND	ND		1.00	5.00
123) 1,2,3-Trichloropropane	(3)				ND	ND		1.00	5.00
125) n-Propylbenzene	(3)				ND	ND		1.00	5.00
127) 2-Chlorotoluene	(3)				ND	ND		1.00	5.00

PAEB2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932512

File: /chem/HP09915.i/10mar23a.b/lm23s04.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PAEB2;5932512;1;0; ; ; ; ; ; ; ;

Batch: L100821AA

Matrix: WATER

Injected At: 23-MAR-2010 12:45

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID: HP09915.i

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor: 1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
128) 1,3,5-Trimethylbenzene	(3)				ND	ND			1.00	5.00
129) 4-Chlorotoluene	(3)				ND	ND			1.00	5.00
131) tert-Butylbenzene	(3)				ND	ND			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)				ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)				ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)				ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)				ND	ND			1.00	5.00
139) 1,4-Dichlorobenzene	(3)				ND	ND			1.00	5.00
144) n-Butylbenzene	(3)				ND	ND			1.00	5.00
145) 1,2-Dichlorobenzene	(3)				ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)				ND	ND			2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)				ND	ND			1.00	5.00
149) Hexachlorobutadiene	(3)				ND	ND			2.00	5.00
150) Naphthalene	(3)				ND	ND			1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

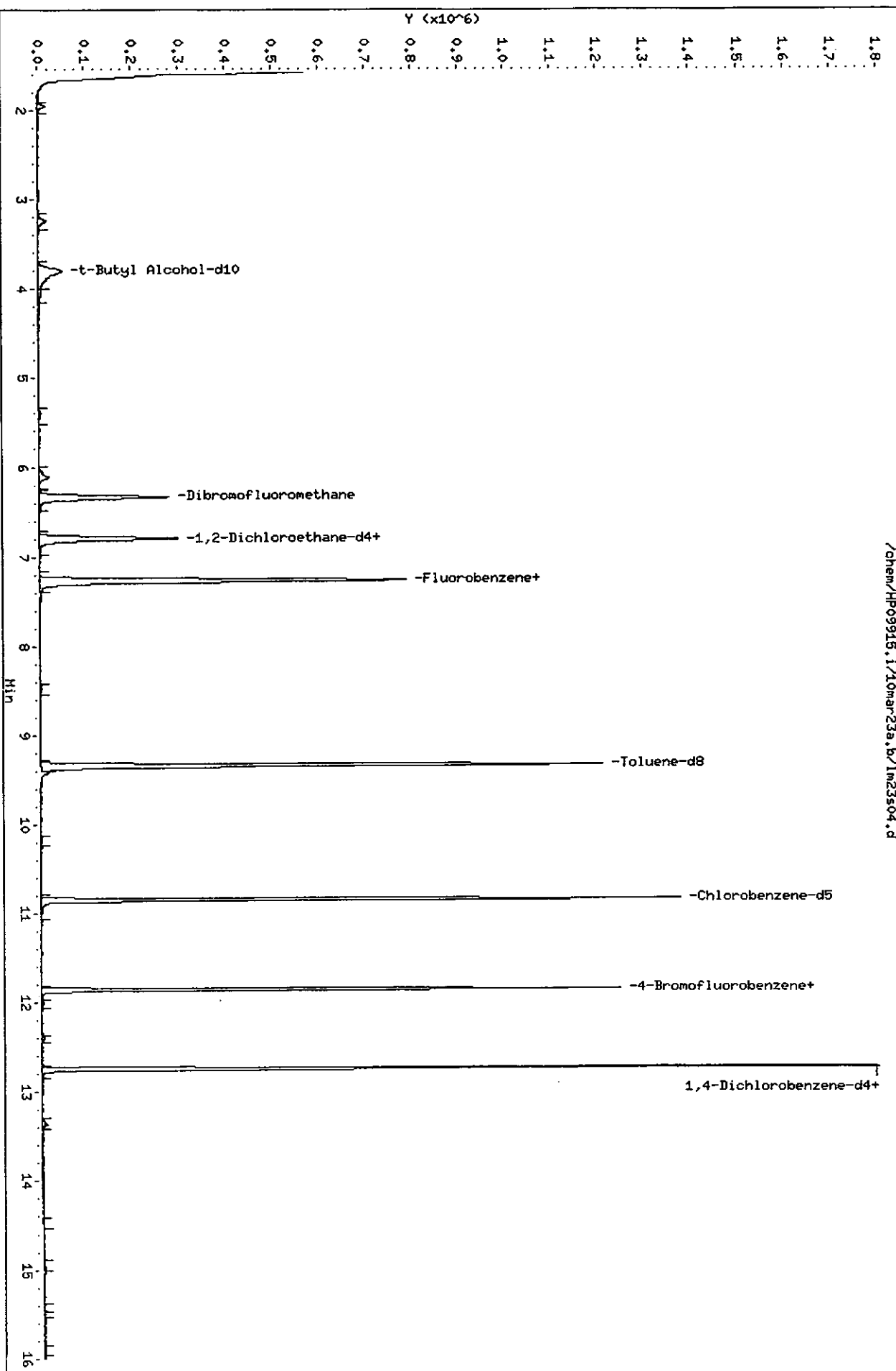
Analyst: LCP00895 Date: 3-23-10Auditor: [Signature] Date: 3/28/10

Page 3 of 3

PTL05 0144

Data File: /chem/HP09915.i/10mar23a.b/1m23s04.d
Date: 23-MAR-2010 12:45
Client ID: PAEB2
Sample Info: PAEB2;5932612;1;0; ; ; ; ;
Purge Volume: 5.0
Column Phase: DB-624

Instrument: HP09915.1
Operator: LCP00895
Column diameter: 0.25



24895
383.10

PTL05 0145

Quant Report

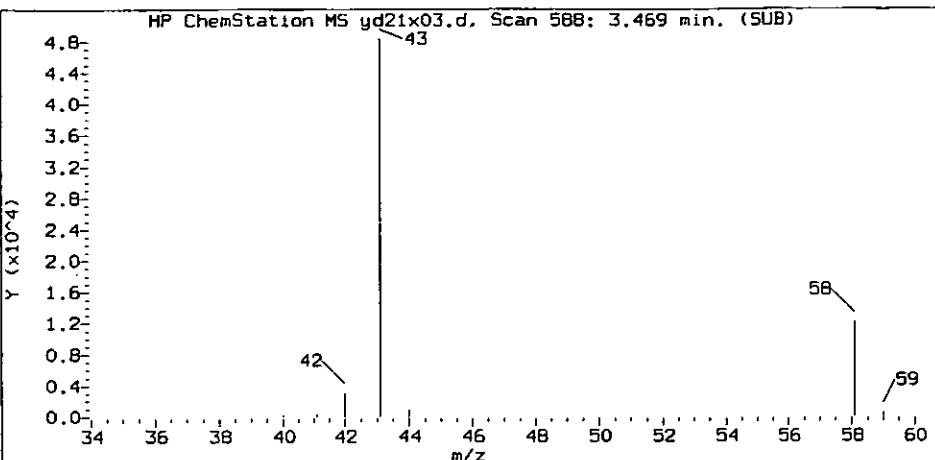
Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s04.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 12:45 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 14:35 lcp00895
Sample Name: PAEB2 Lab Sample ID: 5932512

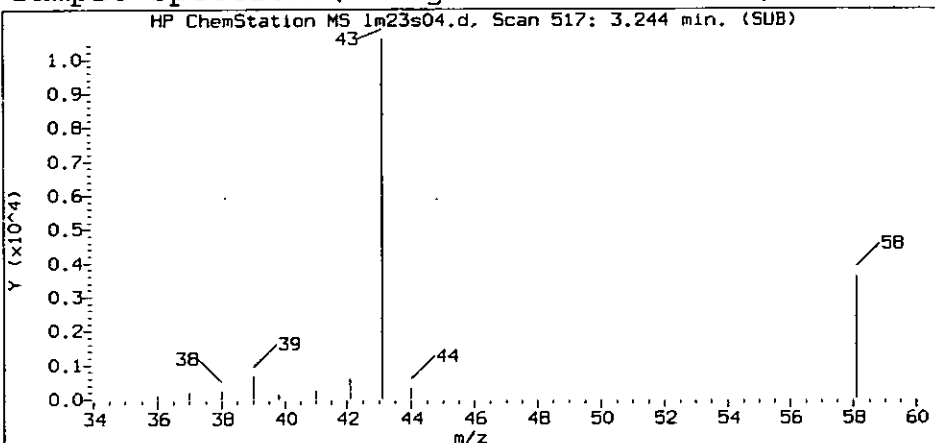
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
20) Acetone	(1)	3.244	43	41346	13.775
30) *t-Butyl Alcohol-d10	(4)	3.806	65	179591	250.000
53) Chloroform	(1)	6.112	83	23464	2.156
72) *Fluorobenzene	(1)	7.269	96	1056759	50.000
104) *Chlorobenzene-d5	(2)	10.848	117	765770	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	413305	50.000
54) \$Dibromofluoromethane	(1)	6.337	113	260105	50.240
64) \$1,2-Dichloroethane-d4	(1)	6.800	102	59295	49.649
90) \$Toluene-d8	(2)	9.340	98	1014202	49.898
119) \$4-Bromofluorobenzene	(2)	11.857	95	370106	48.822

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

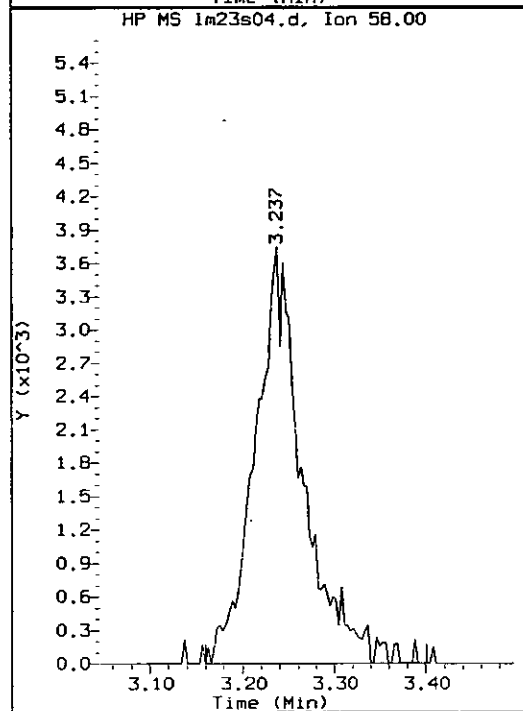
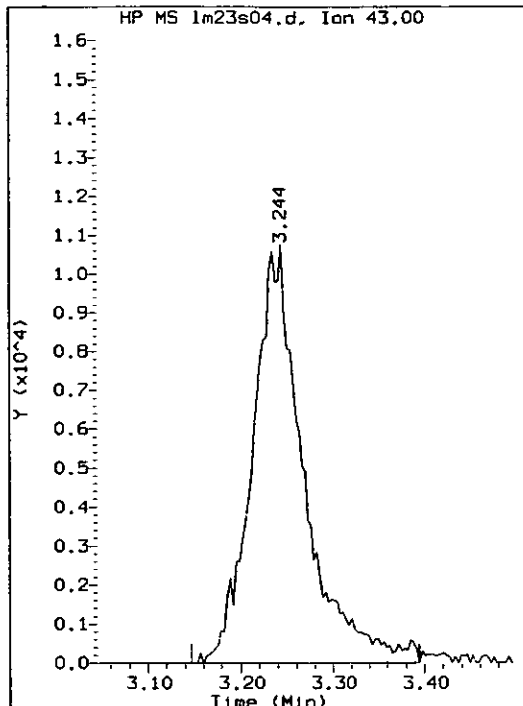
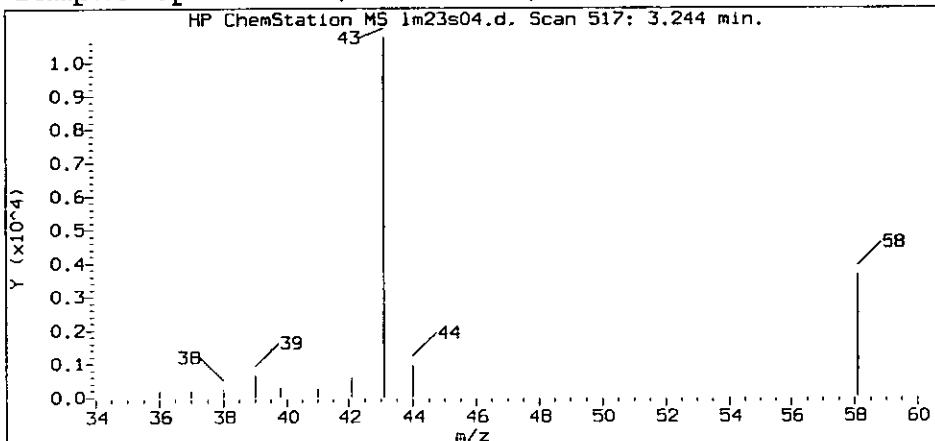
Reference Standard Spectrum for Acetone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s04.d
Injection date and time: 23-MAR-2010 12:45

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 14:35 lcp00895

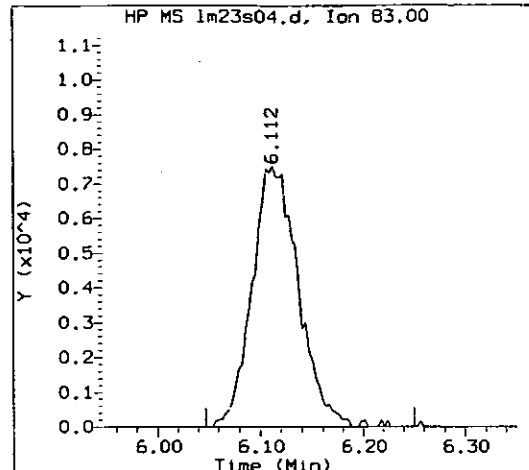
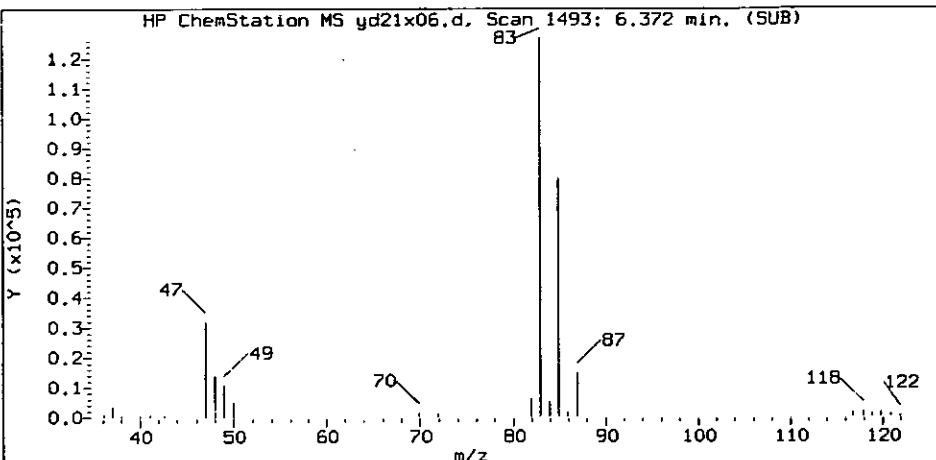
Sample Name: PAEB2

Lab Sample ID: 5932512

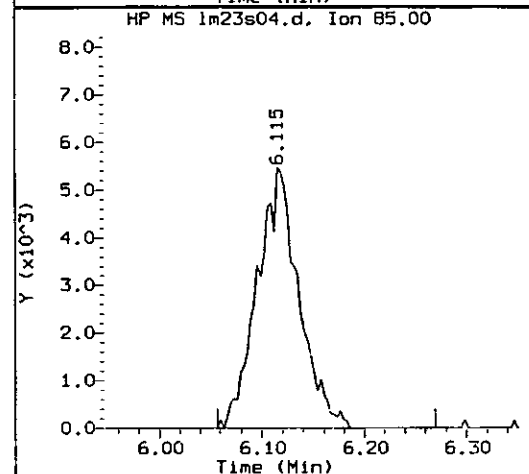
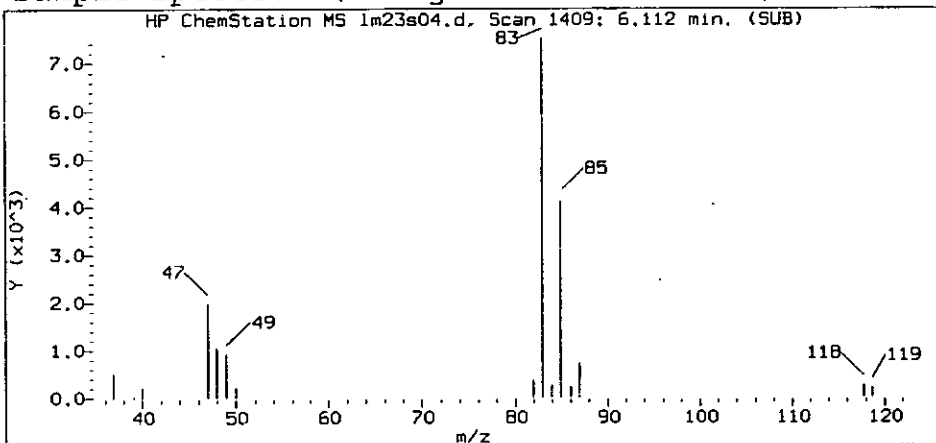
Compound Number : 20
Compound Name : Acetone
Scan Number : 517
Retention Time (minutes) : 3.244
Quant Ion : 43.0
Area (flag) : 41346
Concentration (ug/L) : 13.7750

PTL05 0147

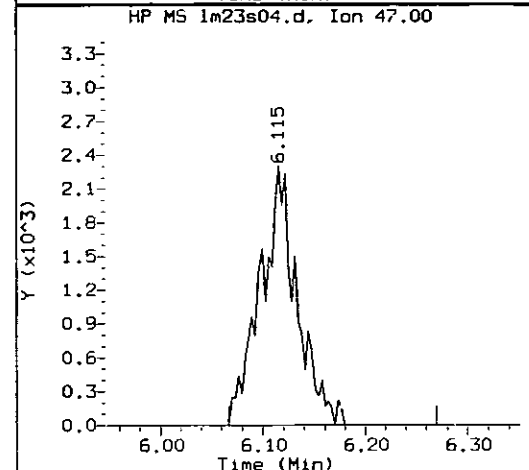
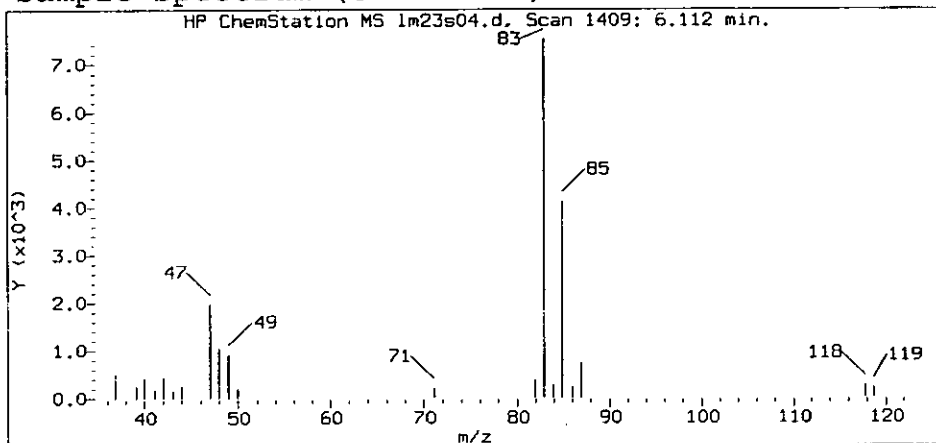
Reference Standard Spectrum for Chloroform



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s04.d
Injection date and time: 23-MAR-2010 12:45

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 14:35 lcp00895

Sample Name: PAEB2

Lab Sample ID: 5932512

Compound Number : 53
Compound Name : Chloroform
Scan Number : 1409
Retention Time (minutes) : 6.112
Quant Ion : 83.0
Area (flag) : 23464
Concentration (ug/L) : 2.1564

PTL05 0148

5932513

Bottle Code: 38A

PTL05 0149

5932513

Bottle Code:38A

Target Compounds	I. S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====											
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
101) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
107) Ethylbenzene	(2)					ND	ND			0.80	5.00
108) m+p-Xylene	(2)					ND	ND			0.80	5.00
110) o-Xylene	(2)					ND	ND			0.80	5.00
111) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
114) Isopropylbenzene	(2)					ND	ND			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

Page 2 of 3

PTL05 8154

File: /chem/HP09915.i/10mar23a.b/lm23s18.d

Sample: PATD2;5932513;1;0;;;

Injected At:23-MAR-2010 17:51

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: 1m23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID:HP09915.1

Standard Reference: 1m23c01.d

Prep Factor:1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code: 38A

Target Compounds	I.S.	RT	(+/-RRT)	QIon	Area	Conc.	Conc.	Blank	Reporting	
	Ref.					(on column)	(in sample)	Conc.	Qual.	Limit
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
128) 1,3,5-Trimethylbenzene	(3)					ND	ND		1.00	5.00
129) 4-Chlorotoluene	(3)					ND	ND		1.00	5.00
131) tert-Butylbenzene	(3)					ND	ND		1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)					ND	ND		1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND		1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND		1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND		1.00	5.00
139) 1,4-Dichlorobenzene	(3)					ND	ND		1.00	5.00
144) n-Butylbenzene	(3)					ND	ND		1.00	5.00
145) 1,2-Dichlorobenzene	(3)					ND	ND		1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND		2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)					ND	ND		1.00	5.00
149) Hexachlorobutadiene	(3)					ND	ND		2.00	5.00
150) Naphthalene	(3)					ND	ND		1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)					ND	ND		1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

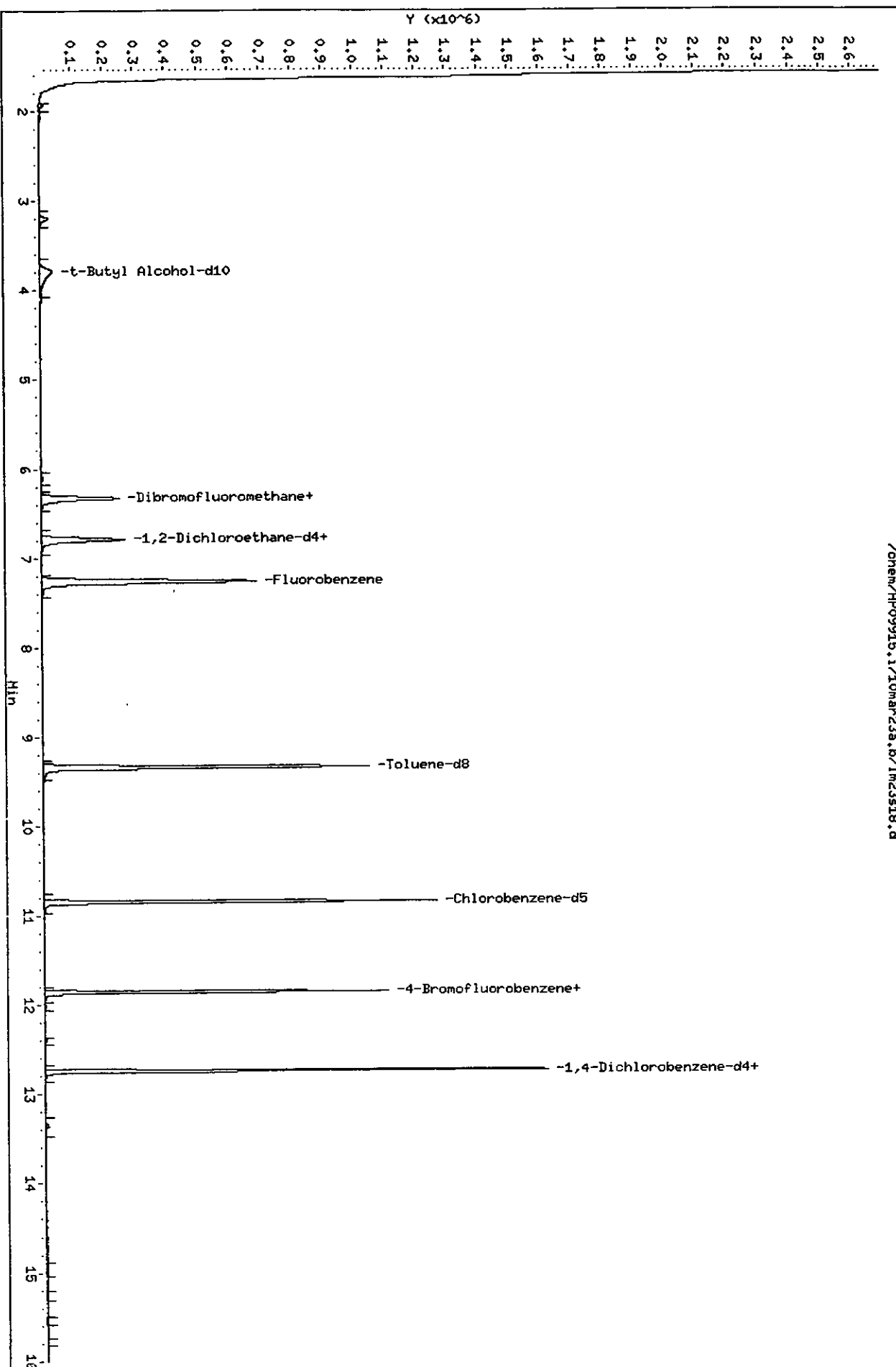
Analyst: _____ Date: 3/7/

Auditor: _____ Date: 1/19

Column phase: DB-624

Column diameter: 0.25

WDP 2225
5/23/22



Quant Report

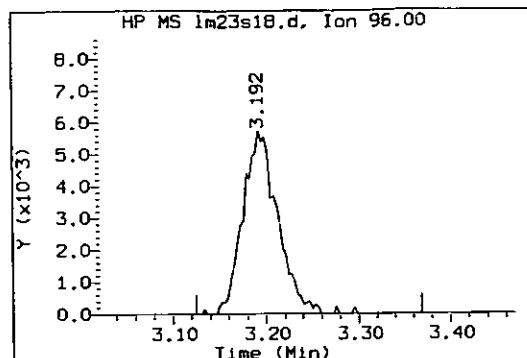
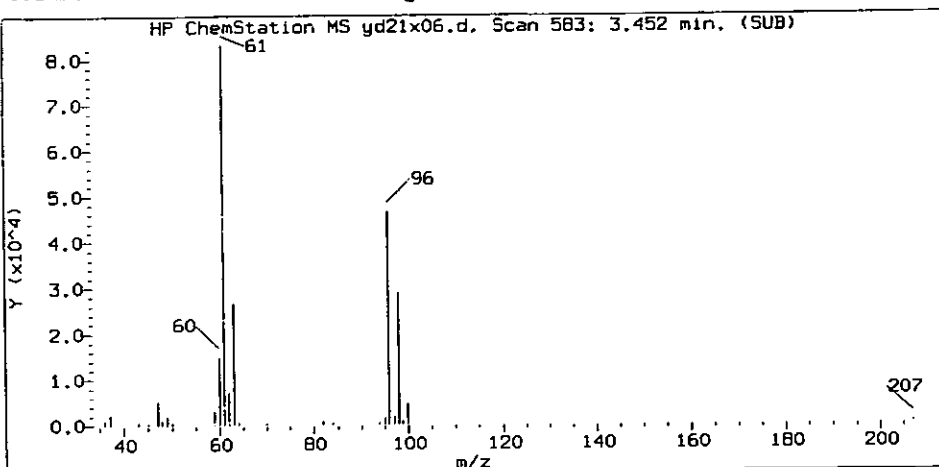
Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s18.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 17:51 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 18:10 Automation
Sample Name: PATD2 Lab Sample ID: 5932513

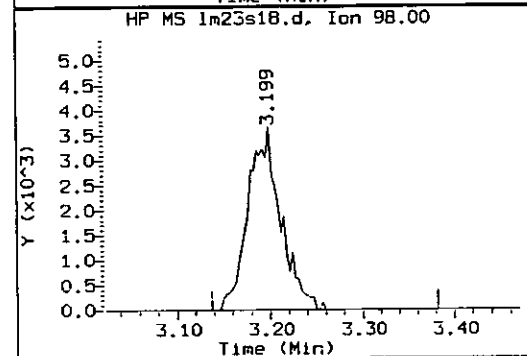
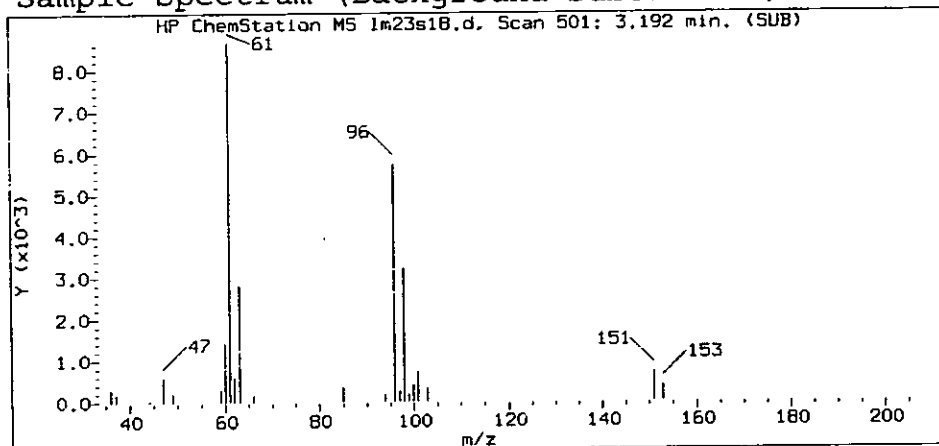
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
17) 1,1-Dichloroethene	(1)	3.192	96	14848	3.207
30) *t-Butyl Alcohol-d10	(4)	3.790	65	172071	250.000
72) *Fluorobenzene	(1)	7.263	96	947449	50.000
104) *Chlorobenzene-d5	(2)	10.845	117	685073	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	368555	50.000
54) \$Dibromofluoromethane	(1)	6.327	113	232713	50.135
64) \$1,2-Dichloroethane-d4	(1)	6.790	102	53553	50.015
90) \$Toluene-d8	(2)	9.340	98	908430	49.959
119) \$4-Bromofluorobenzene	(2)	11.857	95	333016	49.103

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

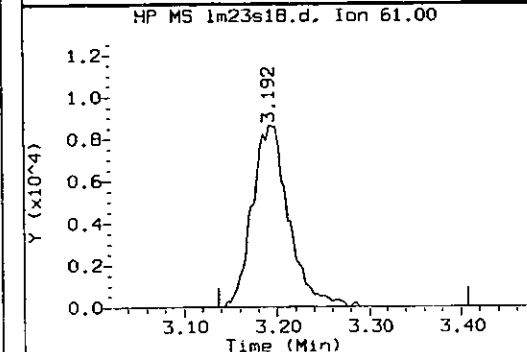
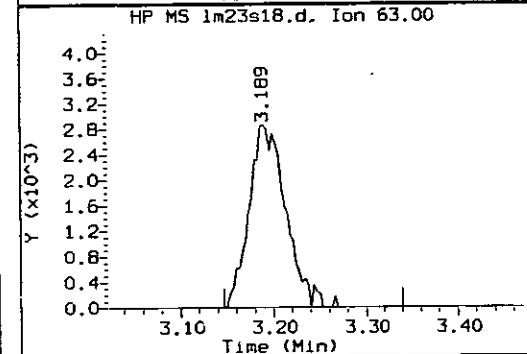
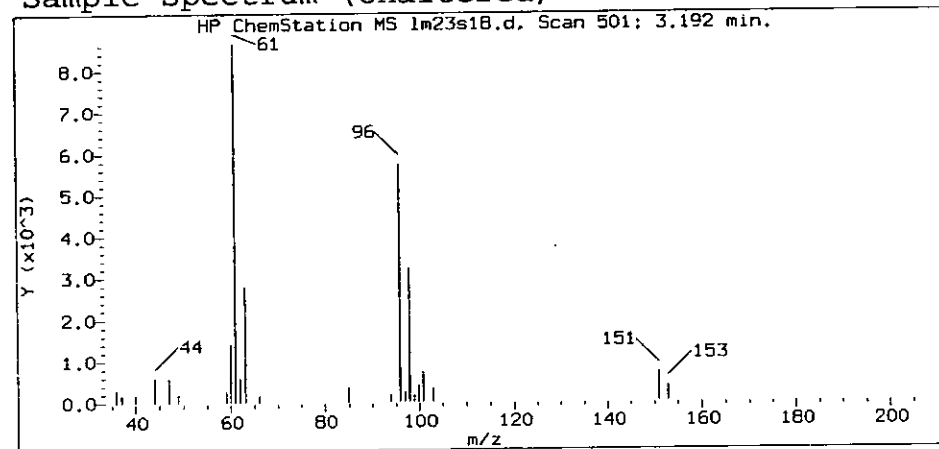
Reference Standard Spectrum for 1,1-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s18.d
Injection date and time: 23-MAR-2010 17:51

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 18:10 Automation

Sample Name: PATD2

Lab Sample ID: 5932513

Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 501
Retention Time (minutes) : 3.192
Quant Ion : 96.0
Area (flag) : 14848
Concentration (ug/L) : 3.2075

PTL85 8154

File: /chem/HP09915.i/10mar23a.b/lm23s19.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA19S;5932514;1;0;;;;;

Batch: L100821AA

Matrix: WATER

Injected At: 23-MAR-2010 18:13

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: 1m23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: 1m23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area (+/- %Area)	Conc(ext)	QC Flag
=====	=====	====	====	=====	=====	=====
30) t-Butyl Alcohol-d10	3.796(-0.022)	689	65	165600(-3)	250.00	
72) Fluorobenzene	7.266(-0.006)	1768	96	952782(-10)	50.00	
104) Chlorobenzene-d5	10.844(0.000)	2881	117	685867(-10)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	367931(-15)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I. S.		QIon	Area	Conc.	QC	QC Limits
	Ref.	RT (+/- RRT)			(on column)	flags	
54) Dibromofluoromethane	(1)	6.327(0.000)	113	231562	49.608	99%	80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.803(0.000)	102	53533	49.716	99%	77 - 113
90) Toluene-d8	(2)	9.340(0.000)	98	905556	49.743	99%	80 - 113
119) 4-Bromofluorobenzene	(2)	11.857(0.000)	95	332294	48.940	98%	78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)					ND	ND			2.00	5.00
3) Chloromethane	(1)					ND	ND			1.00	5.00
4) Vinyl Chloride	(1)					ND	ND			1.00	5.00
7) Bromomethane	(1)					ND	ND			1.00	5.00
9) Chloroethane	(1)					ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)					ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)	3.189	(0.000)	96	14058	3.020	3.02		J	0.80	5.00
20) Acetone	(1)					ND	ND			6.00	20.00
29) Methylene Chloride	(1)					ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)					ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)					ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)					ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)					ND	ND			0.80	5.00
47) 2-Butanone	(1)					ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)					ND	ND			1.00	5.00
50) Bromochloromethane	(1)					ND	ND			1.00	5.00
53) Chloroform	(1)					ND	ND			0.80	5.00
56) 1,1,1-Trichloroethane	(1)					ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)					ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)					ND	ND			1.00	5.00
67) Benzene	(1)					ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)					ND	ND			1.00	5.00
76) Trichloroethene	(1)					ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 1 of 3

PTL85 0155

File: /chem/HP09915.i/10mar23a.b/lm23s19.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA19S;5932514;1;0;:::;;

Batch: L100821AA

Matrix: WATER

Injected At:23-MAR-2010 18:13

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code:38A

Target Compounds	I.S.		QIon	Area	Conc.	Conc.	Blank	Reporting		LOQ
	Ref.	RT (+/-RRT)			(on column)	(in sample)		Conc.	Qual.	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
80) Dibromomethane	(1)				ND	ND			1.00	5.00
84) Bromodichloromethane	(1)				ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)				ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)				ND	ND			3.00	10.00
93) Toluene	(2)				ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)				ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)				ND	ND			0.80	5.00
97) Tetrachloroethene	(2)				ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)				ND	ND			1.00	5.00
101) Dibromochloromethane	(2)				ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)				ND	ND			1.00	5.00
105) Chlorobenzene	(2)				ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)				ND	ND			1.00	5.00
107) Ethylbenzene	(2)				ND	ND			0.80	5.00
108) m+p-Xylene	(2)				ND	ND			0.80	5.00
110) o-Xylene	(2)				ND	ND			0.80	5.00
111) Styrene	(2)				ND	ND			1.00	5.00
113) Bromoform	(2)				ND	ND			1.00	5.00
114) Isopropylbenzene	(2)				ND	ND			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)				ND	ND			1.00	5.00
122) Bromobenzene	(3)				ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)				ND	ND			1.00	5.00
125) n-Propylbenzene	(3)				ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

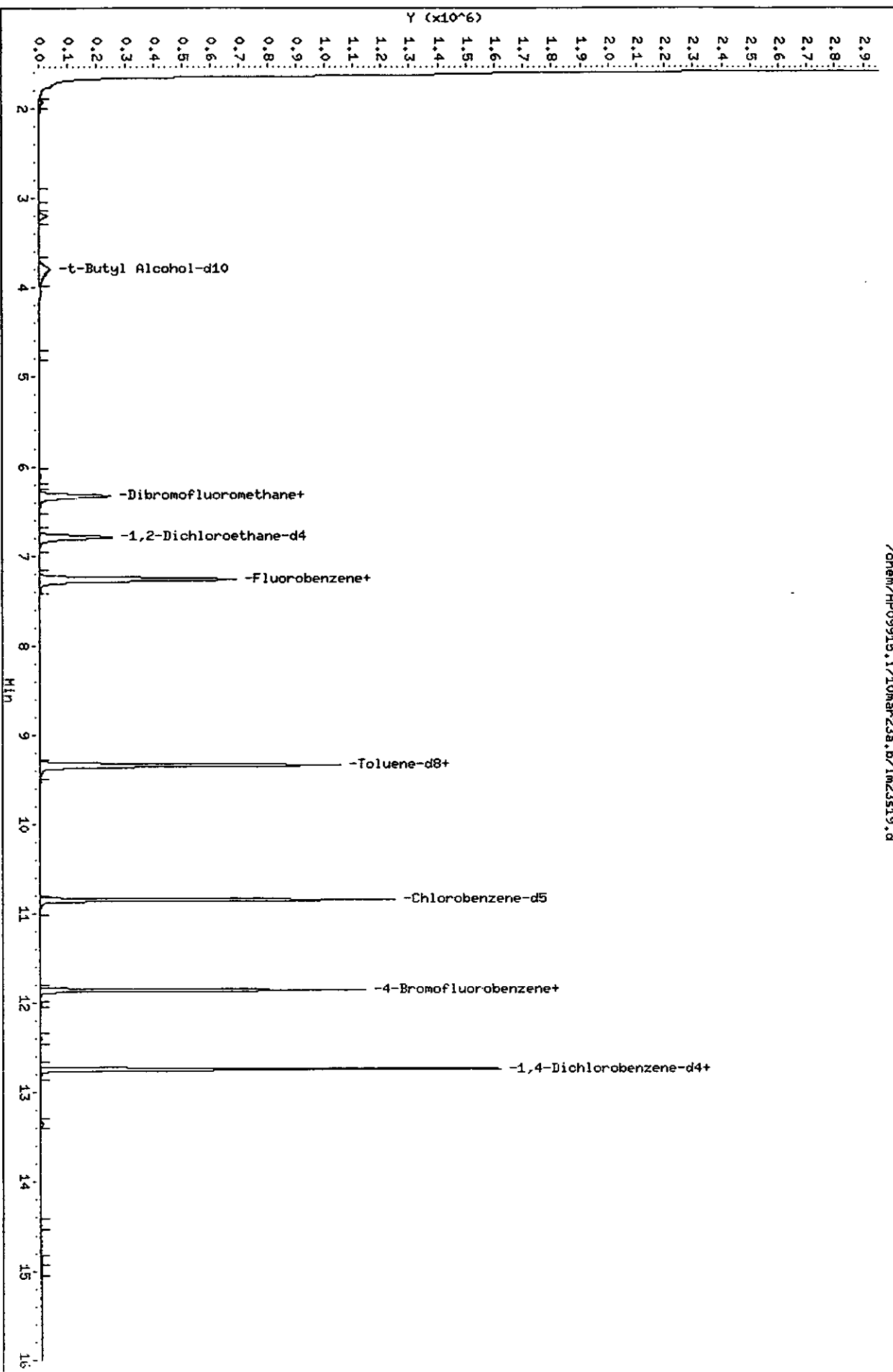
PTL05 0156

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5932514

Sample Concentration Formula: On-Column Amount * (Vc/Vo)
Batch: L100821AA Matrix: WATER
Analyst: LCP00895 Level: Low
Instrument ID: HP09915.1 Sample Wt./Vol.: 5.0000 ml (Vo)
Standard Reference: 1m23c01.d Volume Purged: 5.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code: 38A

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Analyst: [Signature] Date: 3/28/10
Auditor: [Signature] Date: 3/28/10



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s19.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 18:13 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 18:44 kdp02245

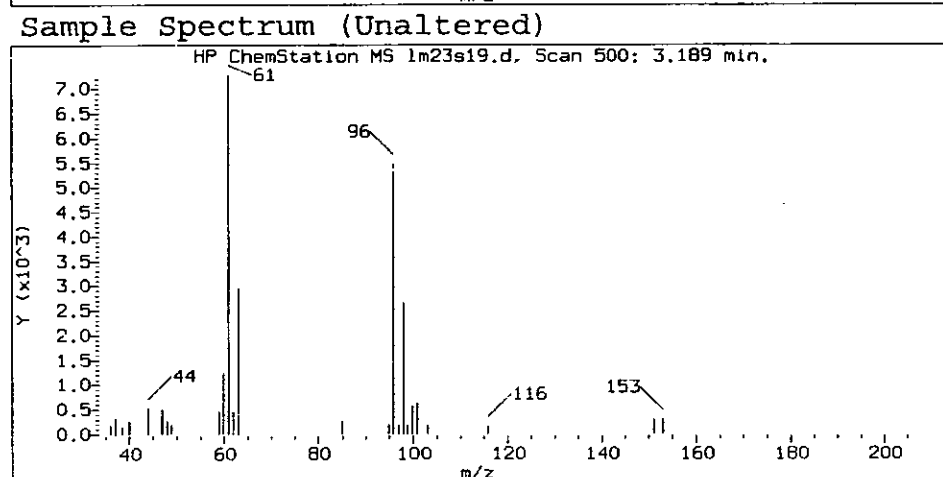
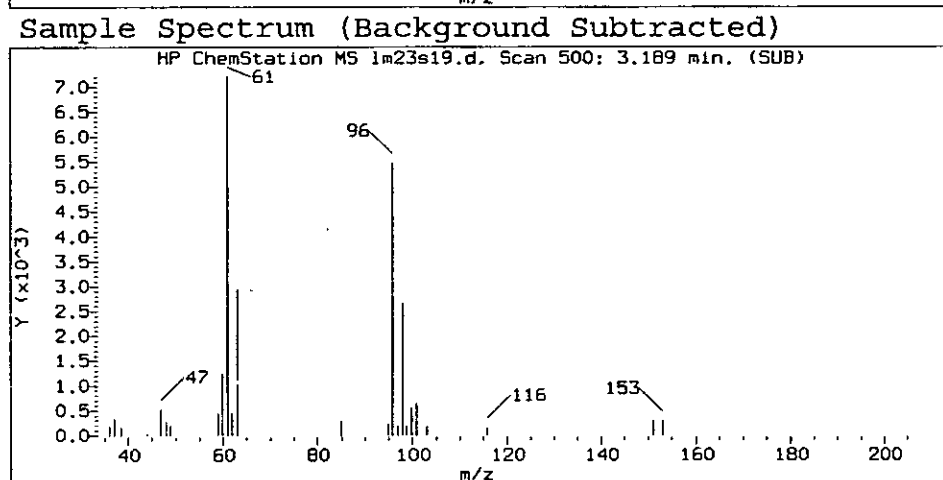
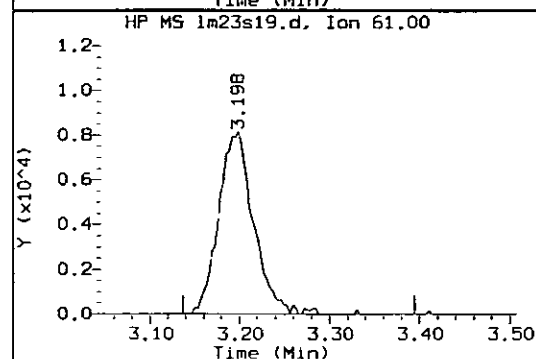
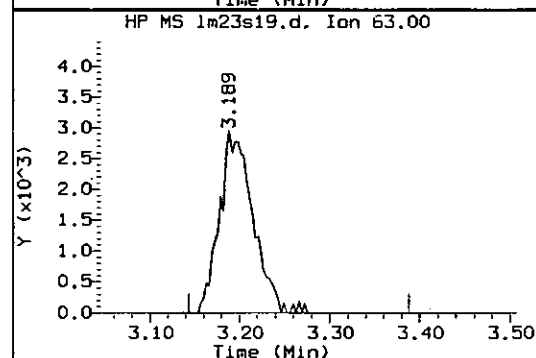
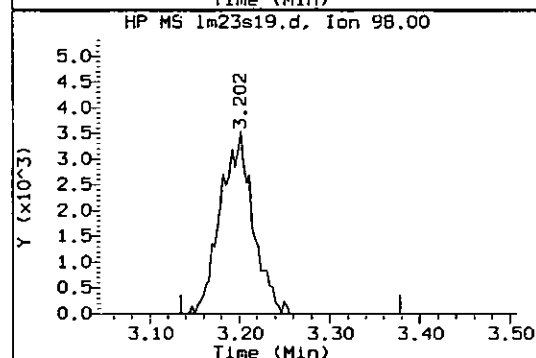
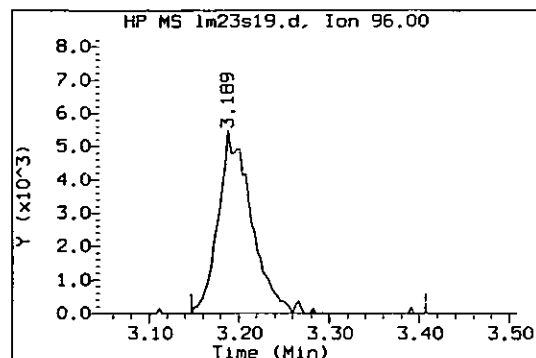
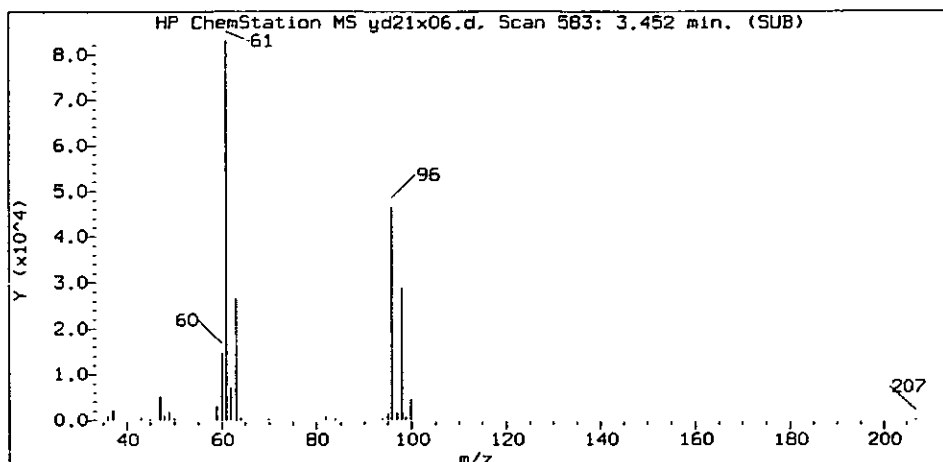
Sample Name: PA19S

Lab Sample ID: 5932514

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
17) 1,1-Dichloroethene	(1)	3.189	96	14058	3.020
30) *t-Butyl Alcohol-d10	(4)	3.796	65	165600	250.000
72) *Fluorobenzene	(1)	7.266	96	952782	50.000
104) *Chlorobenzene-d5	(2)	10.844	117	685867	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	367931	50.000
54) \$Dibromofluoromethane	(1)	6.327	113	231562	49.608
64) \$1,2-Dichloroethane-d4	(1)	6.803	102	53533	49.716
90) \$Toluene-d8	(2)	9.340	98	905556	49.743
119) \$4-Bromofluorobenzene	(2)	11.857	95	332294	48.940

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

Reference Standard Spectrum for 1,1-Dichloroethene



Data File: /chem/HP09915.i/10mar23a.b/lm23s19.d
Injection date and time: 23-MAR-2010 18:13

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 18:44 kdp02245

Sample Name: PA19S

Lab Sample ID: 5932514

Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 500
Retention Time (minutes) : 3.189
Quant Ion : 96.0
Area (flag) : 14058
Concentration (ug/L) : 3.0197

PTL05 0568

5932515

Bottle Code: 38A

PTL05 0161

PA19D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932515

File: /chem/HP09915.i/10mar23a.b/lm23s06.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA19D;5932515;1;0;:::;

Batch:L100821AA

Matrix: WATER

Injected At:23-MAR-2010 13:28

Analyst:LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.i

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code:38A

Target Compounds	I.S.		RT (+/-RRT)	QIon	Area	Conc.	Conc.	Blank	Reporting		
	Ref.					(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====											
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
101) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
107) Ethylbenzene	(2)					ND	ND			0.80	5.00
108) m+p-Xylene	(2)					ND	ND			0.80	5.00
110) o-Xylene	(2)					ND	ND			0.80	5.00
111) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
114) Isopropylbenzene	(2)					ND	ND			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL05 0162

File: /chem/HP09915.1/10mar23a.b/lm23906.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA19D;5932515;1;0;:::;;

Batch: L100821AA

Matrix: WATER

Injected At:23-MAR-2010 13:28

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: 1m23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
128) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
129) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
131) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
139) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
144) n-Butylbenzene	(3)					ND	ND			1.00	5.00
145) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
149) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
150) Naphthalene	(3)					ND	ND			1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E - CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments:

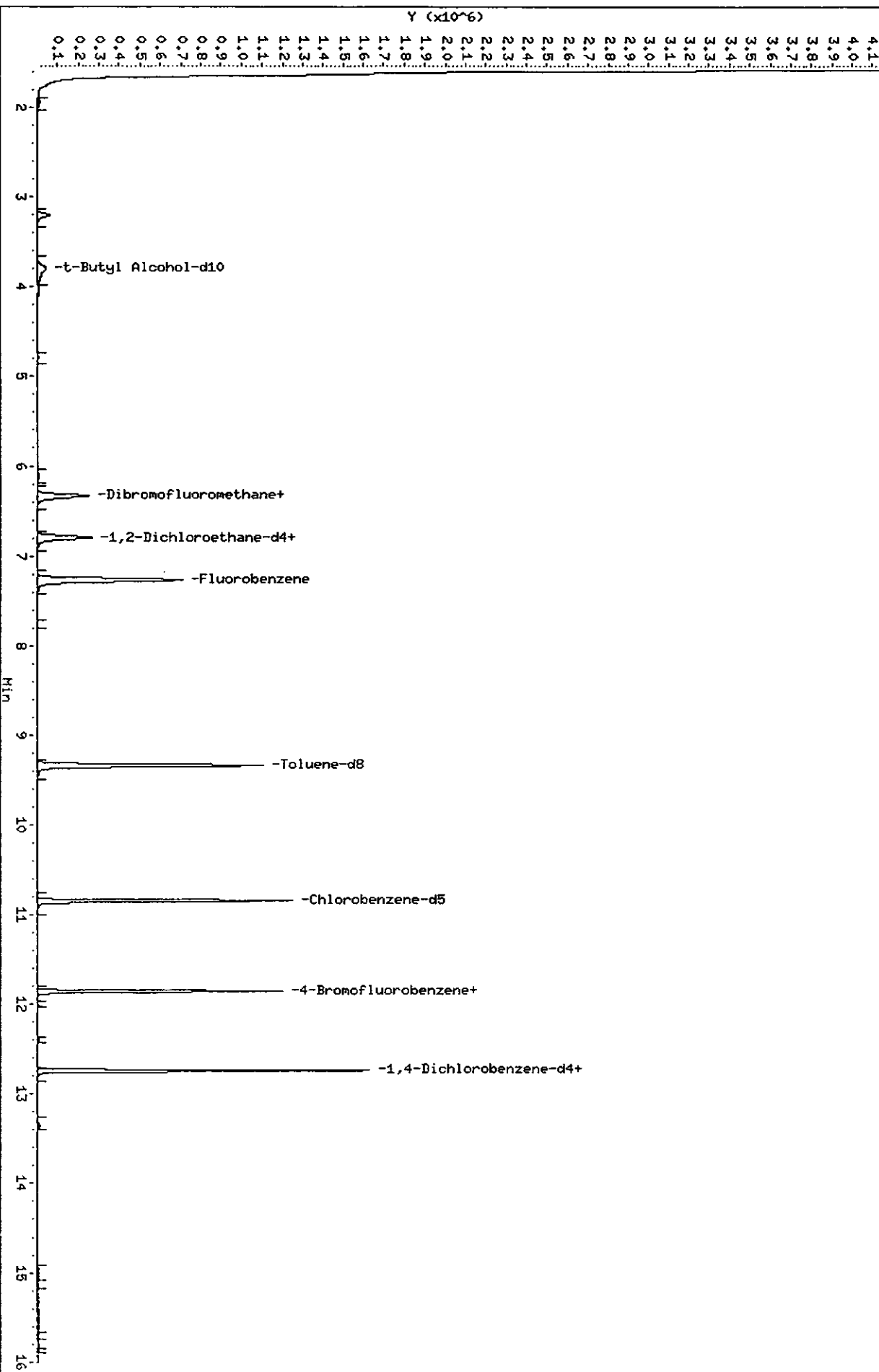
Analyst: _____ Date: _____

Auditor:  Date: 

Date File: /chem/HP09915.i/10mar23a.b/1m23s06.d
Date : 23-MAR-2010 13:28
Client ID: P419D
Sample Info: P419D;5932515;110; ; ; ; ;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: LCP00895
Column diameter: 0.25

/chem/HP09915.i/10mar23a.b/1m23s06.d



21-4-2010
58057

PTL05 8164

Quant Report

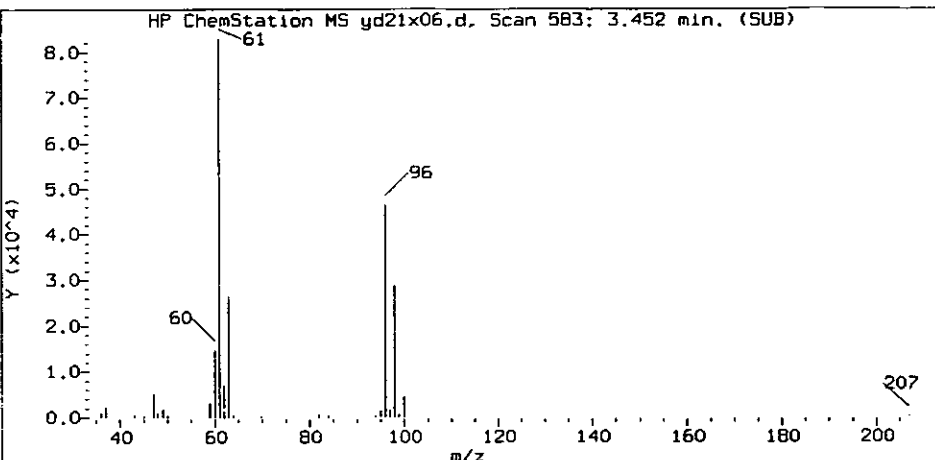
Target Revision 3.5

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Injection date and time: 23-MAR-2010 13:28 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 14:42 lcp00895
Sample Name: PA19D Lab Sample ID: 5932515

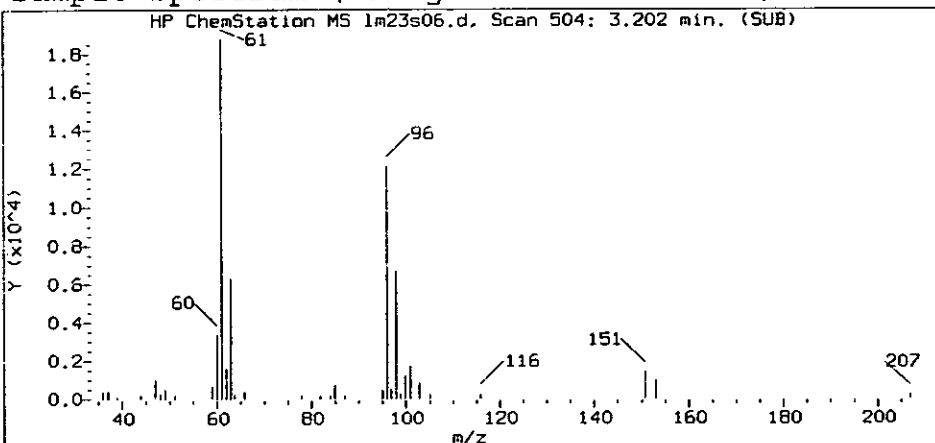
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
17) 1,1-Dichloroethene	(1)	3.202	96	31341	6.485
30) *t-Butyl Alcohol-d10	(4)	3.797	65	180067	250.000
53) Chloroform	(1)	6.115	83	10929	1.073
72) *Fluorobenzene	(1)	7.266	96	989103	50.000
104) *Chlorobenzene-d5	(2)	10.848	117	701752	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	384216	50.000
54) \$Dibromofluoromethane	(1)	6.334	113	239332	49.390
64) \$1,2-Dichloroethane-d4	(1)	6.800	102	55562	49.705
90) \$Toluene-d8	(2)	9.340	98	949164	50.959
119) \$4-Bromofluorobenzene	(2)	11.857	95	344390	49.574

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

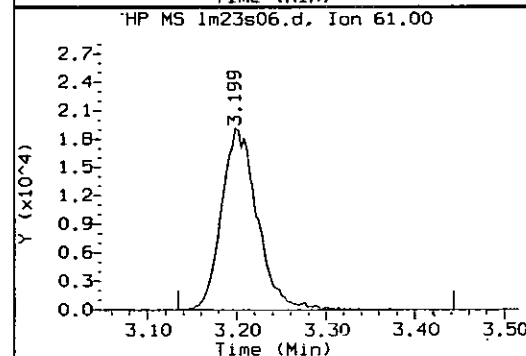
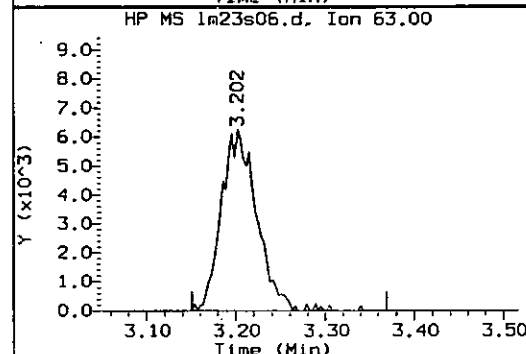
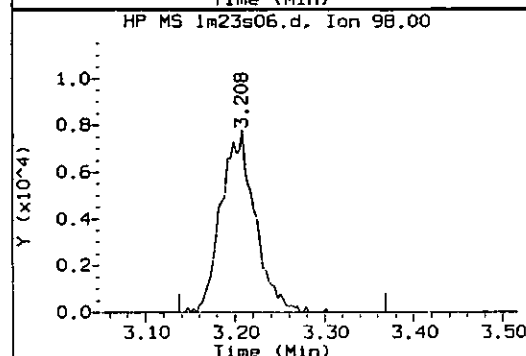
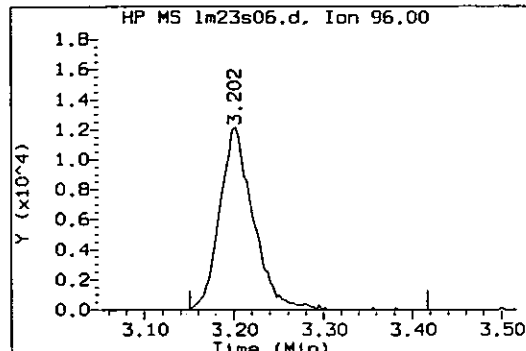
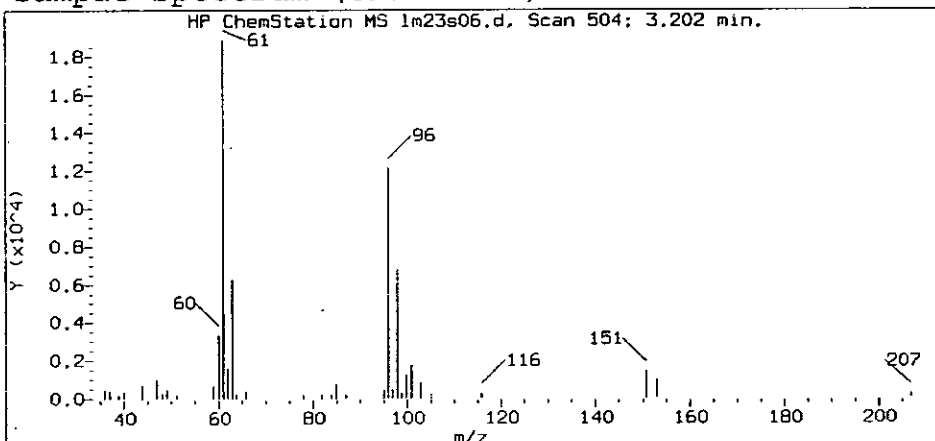
Reference Standard Spectrum for 1,1-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s06.d
Injection date and time: 23-MAR-2010 13:28

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 14:42 lcp00895

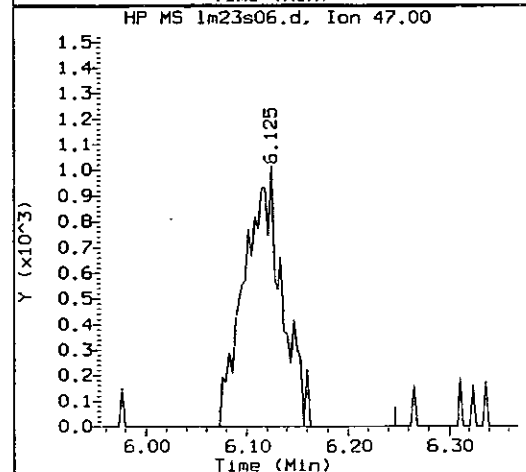
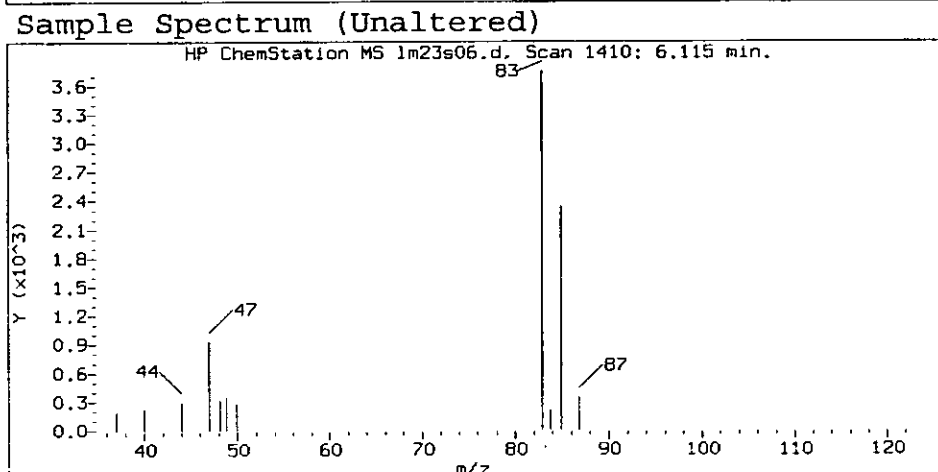
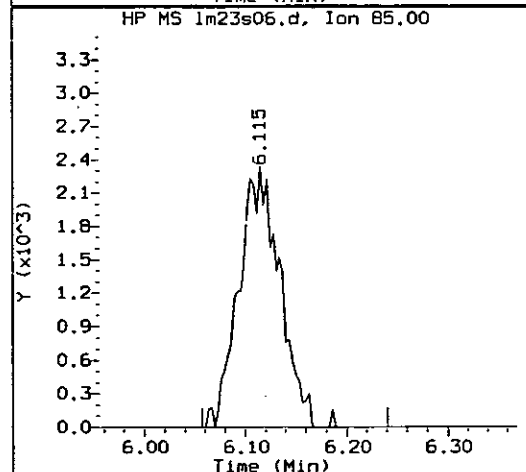
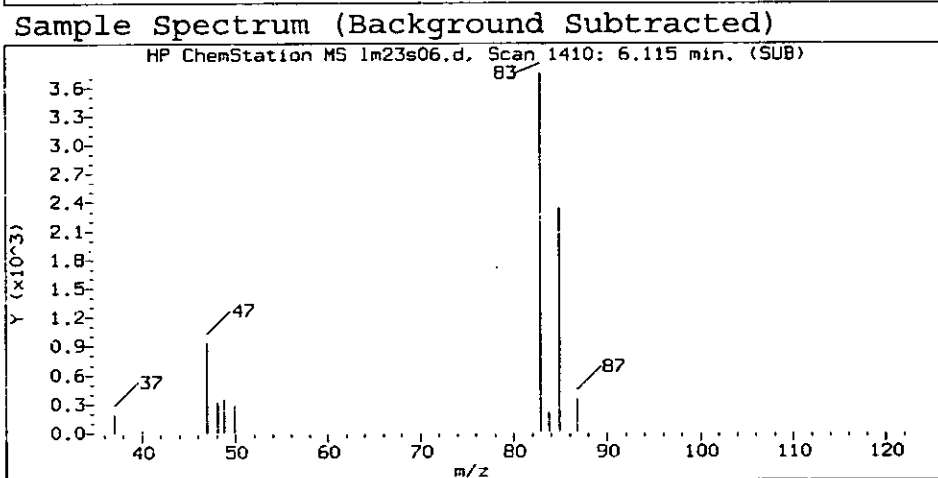
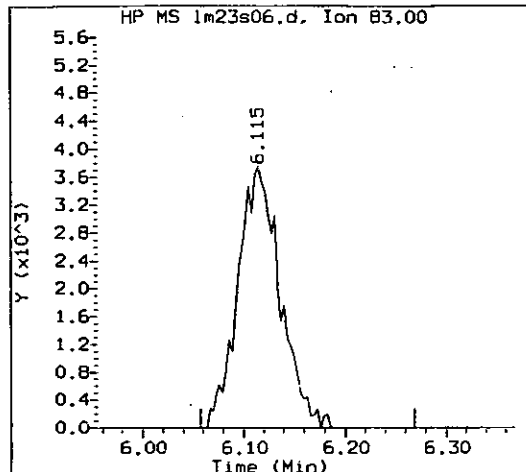
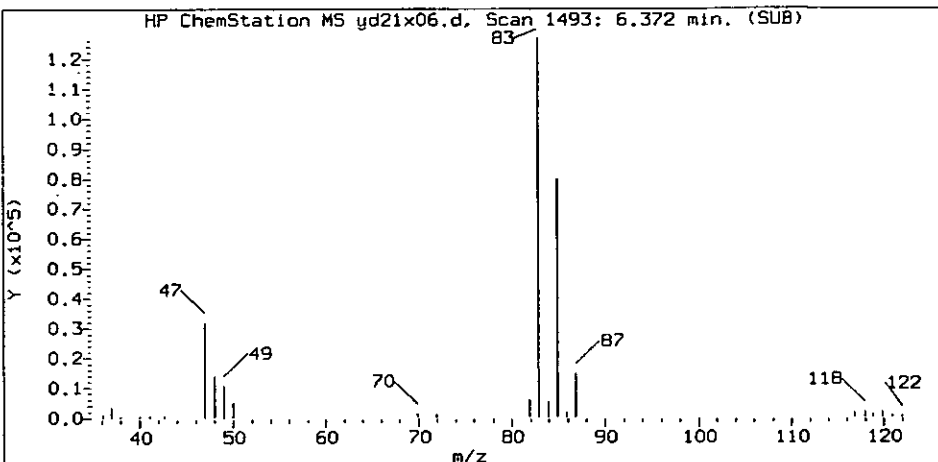
Sample Name: PA19D

Lab Sample ID: 5932515

Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 504
Retention Time (minutes) : 3.202
Quant Ion : 96.0
Area (flag) : 31341
Concentration (ug/L) : 6.4849

PTL05 0166

Reference Standard Spectrum for Chloroform



Data File: /chem/HP09915.i/10mar23a.b/1m23s06.d
Injection date and time: 23-MAR-2010 13:28

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 14:42 lcp00895

Sample Name: PA19D

Lab Sample ID: 5932515

Compound Number : 53
Compound Name : Chloroform
Scan Number : 1410
Retention Time (minutes) : 6.115
Quant Ion : 83.0
Area (flag) : 10929
Concentration (ug/L) : 1.0731

PTL05 0167

PA20S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932518

File: /chem/HP09915.i/10mar23a.b/lm23s20.d

Sample: PA20S;5932518;1;0;:::;

Injected At: 23-MAR-2010 18:35

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID: HP09915.1

Standard Reference: lm23c01.d

Prep Factor: 1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code: 38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
=====	=====	=====	=====	=====	=====	=====
30) t-Butyl Alcohol-d10	3.784(-0.010)	685	65	156876(-8)	250.00	
72) Fluorobenzene	7.266(-0.006)	1768	96	925849(-12)	50.00	
104) Chlorobenzene-d5	10.845(0.000)	2881	117	670761(-12)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	355790(-18)	50.00	

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
=====	=====	=====	=====	=====	=====	=====	=====	=====
54) Dibromofluoromethane	(1)	6.330(0.000)	113	226212	49.871	100%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.793(0.001)	102	51347	49.073	98%		77 - 113
90) Toluene-d8	(2)	9.340(0.000)	98	889045	49.936	100%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.854(0.000)	95	318520	47.968	96%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* = PERCENT REC. OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)	3.195(0.000)	96	36782	8.131	8.13			0.80	5.00
20) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
47) 2-Butanone	(1)				ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
50) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
56) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 1 of 3

FTL85 0168

PA20S

File: /chem/HP09915.i/10mar23a.b/lm23s20.d

Sample: PA20S;5932518;1;0; ; ; ; ; ; ;

Injected At: 23-MAR-2010 18:35

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID: HP09915.1

Standard Reference: lm23c01.d

Prep Factor: 1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code: 38A

Target Compounds	I.S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
101) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
107) Ethylbenzene	(2)					ND	ND			0.80	5.00
108) m+p-Xylene	(2)					ND	ND			0.80	5.00
110) o-Xylene	(2)					ND	ND			0.80	5.00
111) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
114) Isopropylbenzene	(2)					ND	ND			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

File: /chem/HP09915.i/10mar23a.b/lm23s20.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA20S;593251B;1;0; ; ; ; ; ;

Batch: L100821AA

Matrix: WATER

Injected At:23-MAR-2010 18:35

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.i

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: 1m23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: 1m23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code:38A

Target Compounds	I.S.	Conc.	Conc.	Blank	Reporting	
	Ref. RT (+/-RRT) QIon Area (on column) (in sample) Conc. Qual. Limit LOQ					
=====	=====	=====	=====	=====	=====	=====
128) 1,3,5-Trimethylbenzene	(3)	ND	ND			1.00 5.00
129) 4-Chlorotoluene	(3)	ND	ND			1.00 5.00
131) tert-Butylbenzene	(3)	ND	ND			1.00 5.00
133) 1,2,4-Trimethylbenzene	(3)	ND	ND			1.00 5.00
134) sec-Butylbenzene	(3)	ND	ND			1.00 5.00
135) 1,3-Dichlorobenzene	(3)	ND	ND			1.00 5.00
136) p-Isopropyltoluene	(3)	ND	ND			1.00 5.00
139) 1,4-Dichlorobenzene	(3)	ND	ND			1.00 5.00
144) n-Butylbenzene	(3)	ND	ND			1.00 5.00
145) 1,2-Dichlorobenzene	(3)	ND	ND			1.00 5.00
146) 1,2-Dibromo-3-Chloropropane	(3)	ND	ND			2.00 5.00
148) 1,2,4-Trichlorobenzene	(3)	ND	ND			1.00 5.00
149) Hexachlorobutadiene	(3)	ND	ND			2.00 5.00
150) Naphthalene	(3)	ND	ND			1.00 5.00
152) 1,2,3-Trichlorobenzene	(3)	ND	ND			1.00 5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst:

Date _____

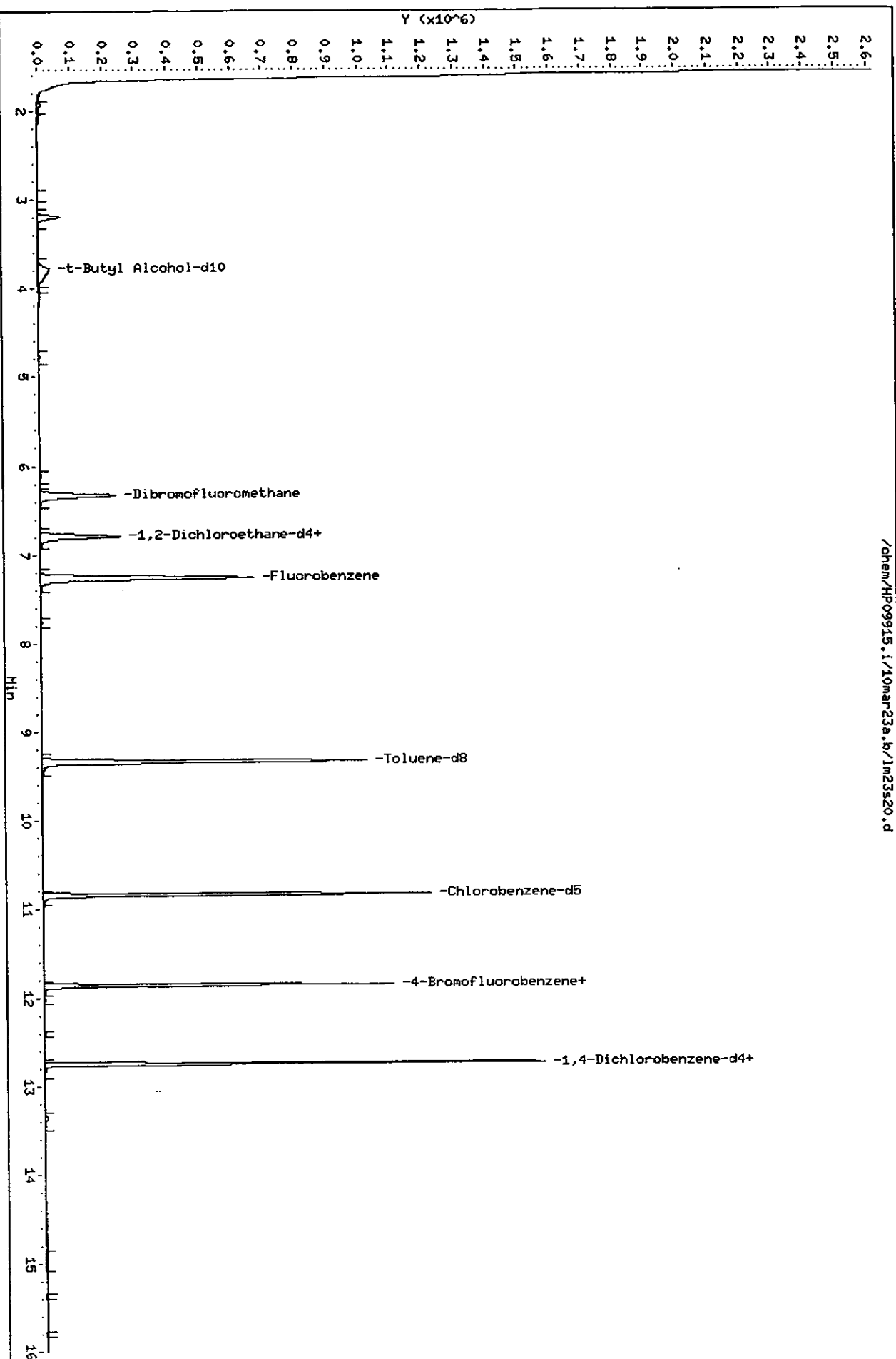
Auditor:

Date: _____

Column phase: DB-624

Column diameter: 0.25

Page 1



Quant Report

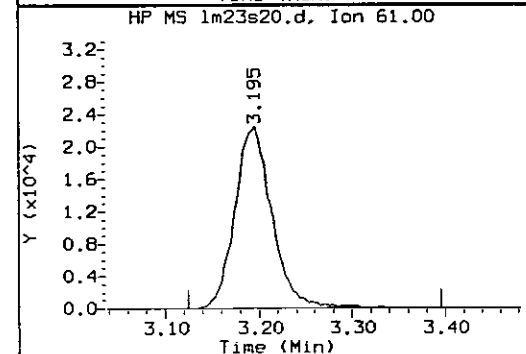
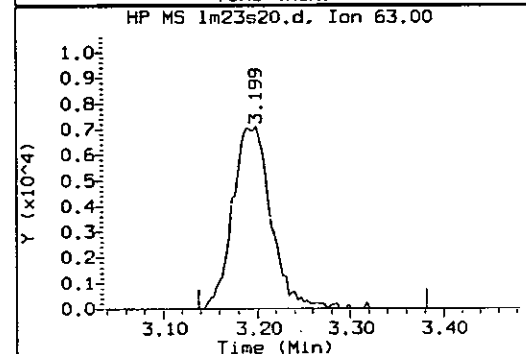
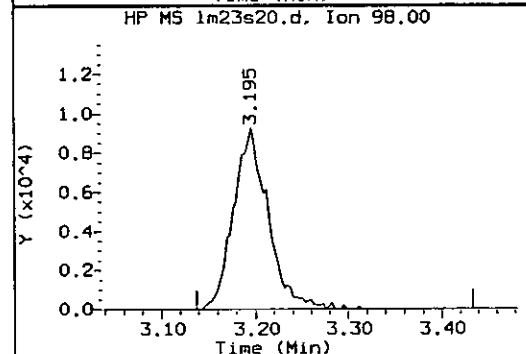
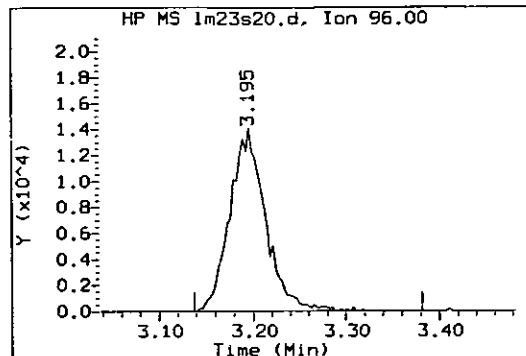
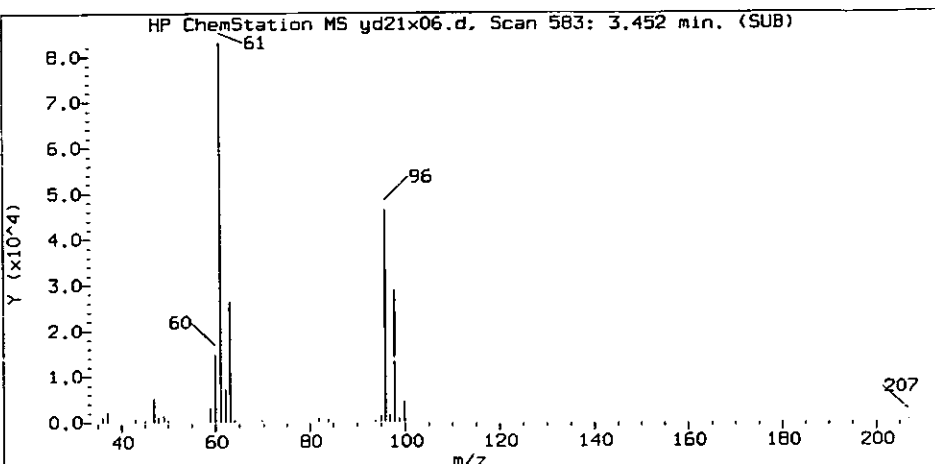
Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s20.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 18:35 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 18:53 Automation
Sample Name: PA20S Lab Sample ID: 5932518

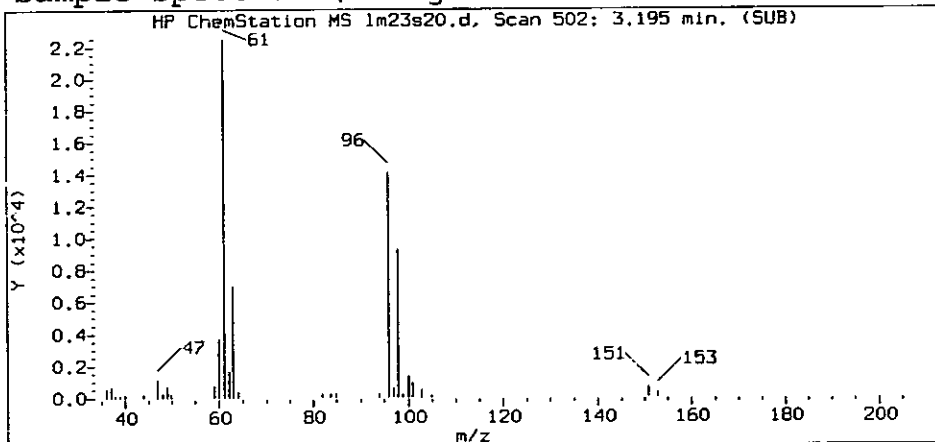
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
17) 1,1-Dichloroethene	(1)	3.195	96	36782	8.131
30) *t-Butyl Alcohol-d10	(4)	3.784	65	156876	250.000
72) *Fluorobenzene	(1)	7.266	96	925849	50.000
104) *Chlorobenzene-d5	(2)	10.845	117	670761	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	355790	50.000
54) \$Dibromofluoromethane	(1)	6.330	113	226212	49.871
64) \$1,2-Dichloroethane-d4	(1)	6.793	102	51347	49.073
90) \$Toluene-d8	(2)	9.340	98	889045	49.936
119) \$4-Bromofluorobenzene	(2)	11.854	95	318520	47.968

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

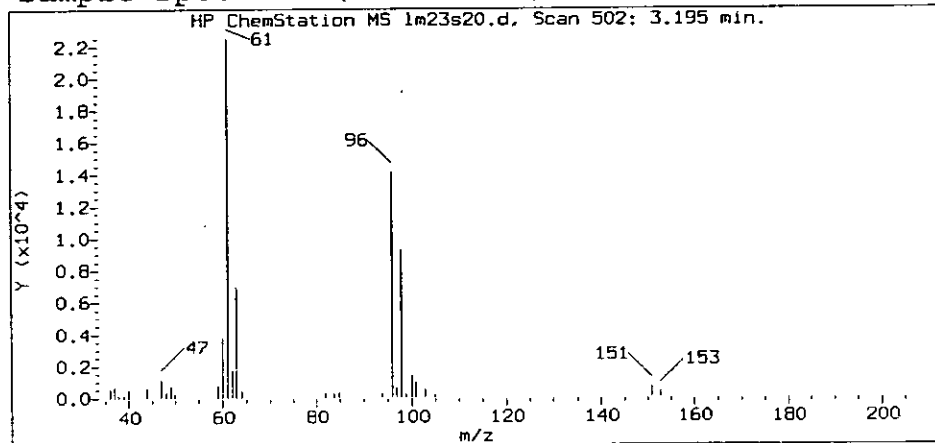
Reference Standard Spectrum for 1,1-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s20.d
Injection date and time: 23-MAR-2010 18:35

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 18:53 Automation

Sample Name: PA20S

Lab Sample ID: 5932518

Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 502
Retention Time (minutes) : 3.195
Quant Ion : 96.0
Area (flag) : 36782
Concentration (ug/L) : 8.1307

PTL05 0173

PA20D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932519

File: /chem/HP09915.1/10mar23a.b/lm23s21.d

Sample: PA20D;5932519;1;0;:::

Injected At:23-MAR-2010 18:57

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch:L100821AA

Analyst:LCP00895

Instrument ID:HP09915.1

Standard Reference: lm23c01.d

Prep Factor:1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.800(-0.026)	690	65	163375(-5)	250.00	
72) Fluorobenzene	7.266(-0.006)	1768	96	910428(-14)	50.00	
104) Chlorobenzene-d5	10.845(0.000)	2881	117	650556(-14)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	343853(-21)	50.00	

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.337(-0.001)	113	220831	49.510	99%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.796(0.000)	102	50116	48.708	97%		77 - 113
90) Toluene-d8	(2)	9.340(0.000)	98	864929	50.090	100%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.854(0.000)	95	304665	47.307	95%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* = PERCENT REC.OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(2)				ND	ND			2.00	5.00
17) 1,1-Dichloroethene	(1)	3.202(-0.001)	96	99191	22.298	22.30			0.80	5.00
20) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
37) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
47) 2-Butanone	(1)				ND	ND			3.00	10.00
45) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
50) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
56) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
60) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
61) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 1 of 3

PTL05 0174

File: /chem/HP09915.i/10mar23a.b/lm23s21.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA20D;5932519;1;0;:::;;

Batch:L100821AA

Matrix: WATER

Injected At:23-MAR-2010 18:57

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID: HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: 1m23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: 1m23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Target Compounds	I.S.		QIon	Area	Conc.	Conc.	Blank Conc.	Reporting	
	Ref.	RT (+/-RRT)			(on column)	(in sample)		Qual.	Limit
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
128) 1,3,5-Trimethylbenzene	(3)				ND	ND		1.00	5.00
129) 4-Chlorotoluene	(3)				ND	ND		1.00	5.00
131) tert-Butylbenzene	(3)				ND	ND		1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)				ND	ND		1.00	5.00
134) sec-Butylbenzene	(3)				ND	ND		1.00	5.00
135) 1,3-Dichlorobenzene	(3)				ND	ND		1.00	5.00
136) p-Isopropyltoluene	(3)				ND	ND		1.00	5.00
139) 1,4-Dichlorobenzene	(3)				ND	ND		1.00	5.00
144) n-Butylbenzene	(3)				ND	ND		1.00	5.00
145) 1,2-Dichlorobenzene	(3)				ND	ND		1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)				ND	ND		2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)				ND	ND		1.00	5.00
149) Hexachlorobutadiene	(3)				ND	ND		2.00	5.00
150) Naphthalene	(3)				ND	ND		1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)				ND	ND		1.00	5.00

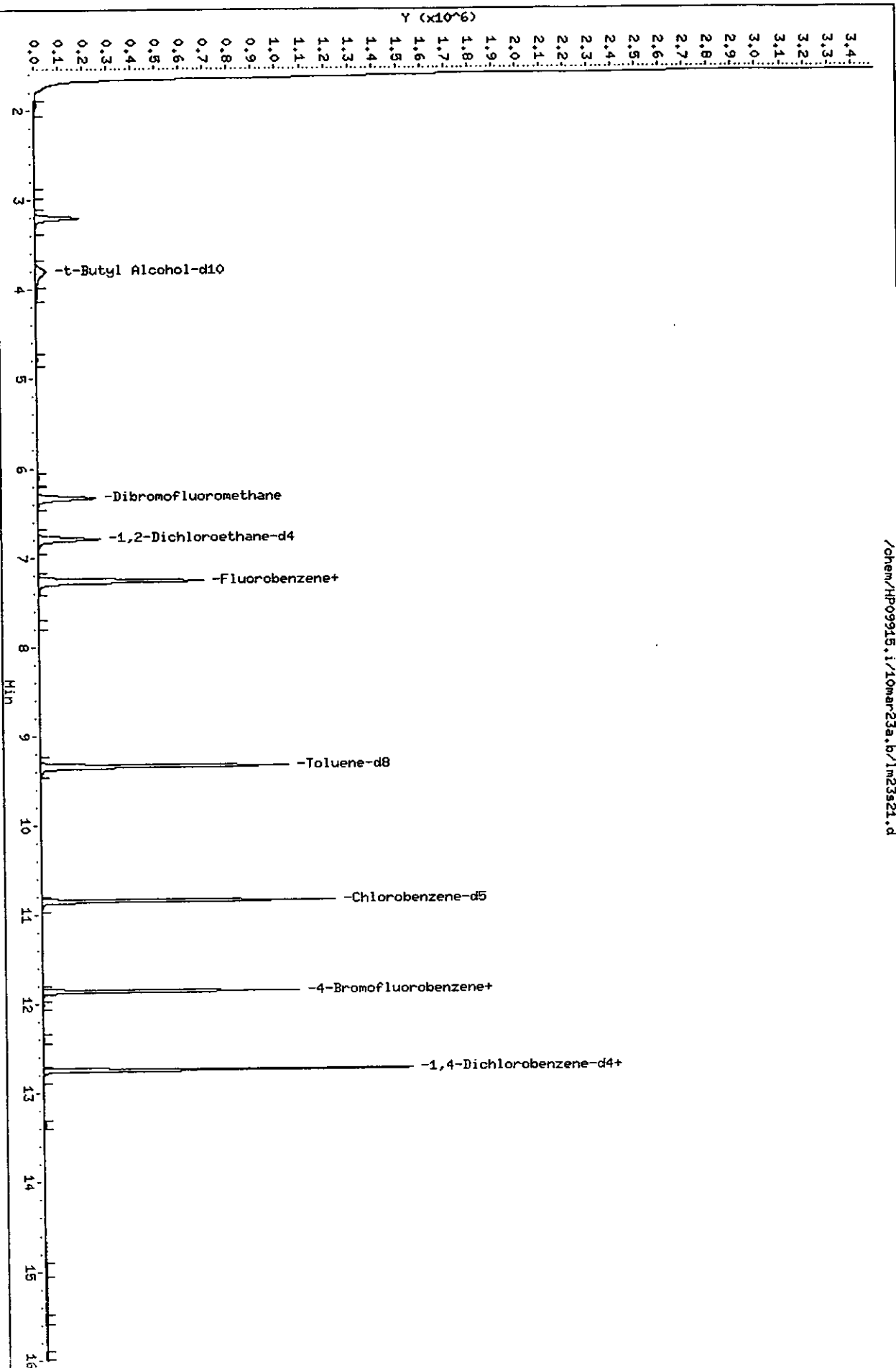
E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: _____ Date: _____

Auditor: [Signature] Date: 07/10/10



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s21.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 18:57 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 19:20 kdp02245

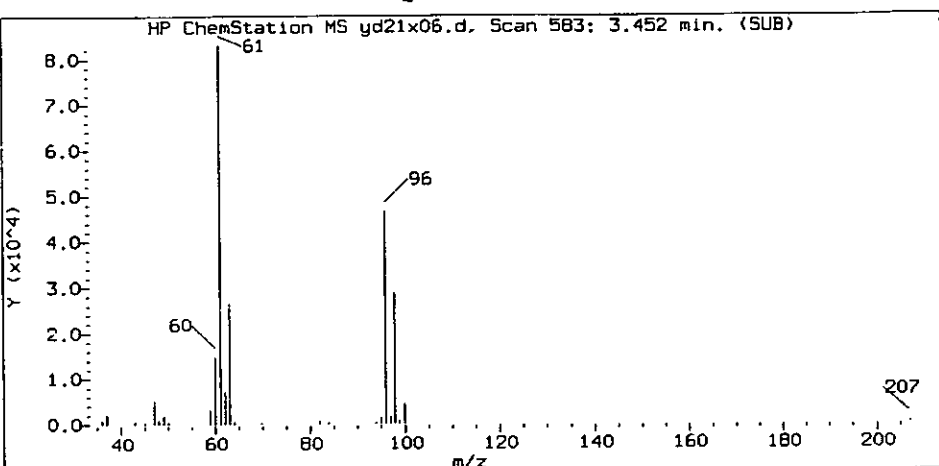
Sample Name: PA20D

Lab Sample ID: 5932519

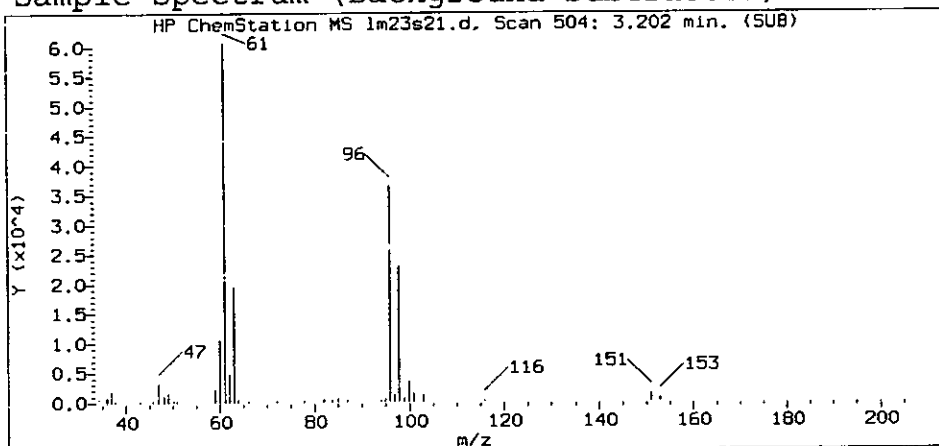
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
17) 1,1-Dichloroethene	(1)	3.202	96	99191	22.298
30) *t-Butyl Alcohol-d10	(4)	3.800	65	163375	250.000
72) *Fluorobenzene	(1)	7.266	96	910428	50.000
104) *Chlorobenzene-d5	(2)	10.845	117	650556	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	343853	50.000
54) \$Dibromofluoromethane	(1)	6.337	113	220831	49.510
64) \$1,2-Dichloroethane-d4	(1)	6.796	102	50116	48.708
90) \$Toluene-d8	(2)	9.340	98	864929	50.090
119) \$4-Bromofluorobenzene	(2)	11.854	95	304665	47.307

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

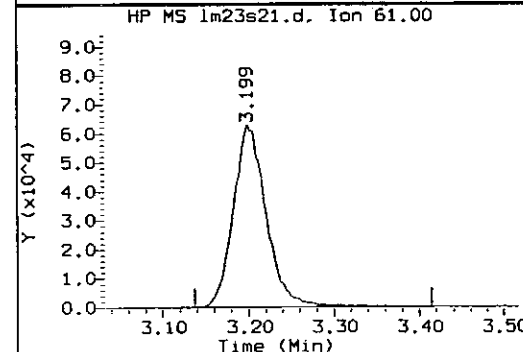
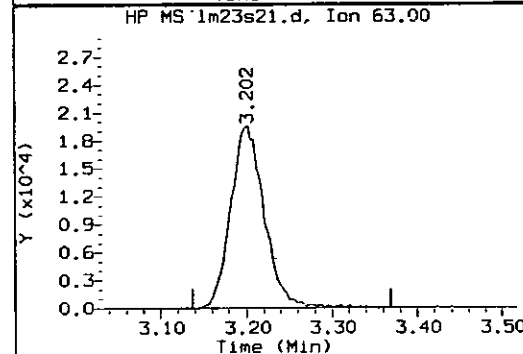
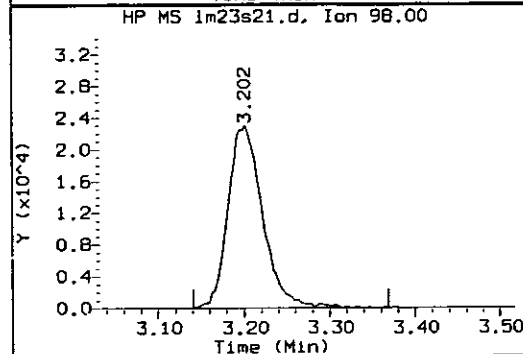
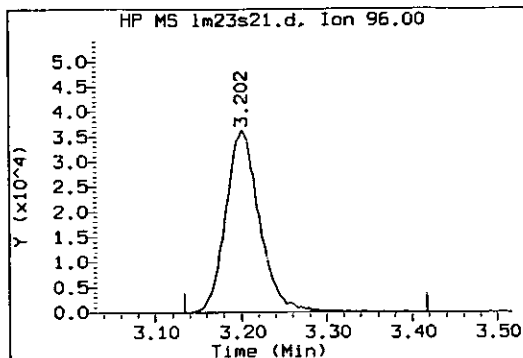
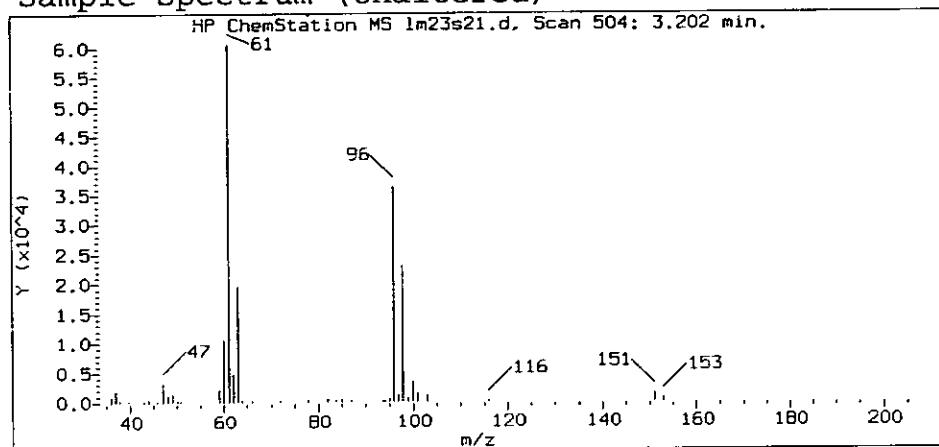
Reference Standard Spectrum for 1,1-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/10mar23a.b/lm23s21.d
Injection date and time: 23-MAR-2010 18:57

Instrument ID: HP09915.i
Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 23-MAR-2010 13:39
Date, time and analyst ID of latest file update: 23-Mar-2010 19:20 kdp02245

Sample Name: PA20D

Lab Sample ID: 5932519

Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 504
Retention Time (minutes) : 3.202
Quant Ion : 96.0
Area (flag) : 99191
Concentration (ug/L) : 22.2975

PTL05 0179

Standards Data

PTL85 8180

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID: HP09915 Calibration Date(s): 03/04/10 03/04/10
 Heated Purge: (Y/N) Y Calibration Times: 12:18 15:18
 Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 4 = lm04i07.d RRF 10= lm04i05.d RRF 20= lm04i04.d
 RRF 50= lm04i03.d RRF100= lm04i02.d RRF300= lm04i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	RRF	% RSD	CAL. METHOD
Dichlorodifluoromethane	0.4553	0.4877	0.4530	0.4110	0.4137	0.4090		0.4383	7	AVG
Chloromethane	#0.3076	0.3071	0.2835	0.2522	0.2721	0.2543		0.2795	9	AVG
Vinyl Chloride	*0.2839	0.2843	0.2673	0.2385	0.2522	0.2409		0.2612	8	AVG
Bromomethane	0.2075	0.2023	0.1907	0.1605	0.1567	N/A		0.1835	13	AVG
Chloroethane	0.1631	0.1635	0.1478	0.1315	0.1289	0.1017		0.1394	17	2NDDEG
Dichlorofluoromethane	0.4421	0.4337	0.4869	0.3926	0.3999	0.3670		0.4204	10	AVG
Trichlorofluoromethane	0.4851	0.5073	0.4833	0.4318	0.4520	0.4515		0.4685	6	AVG
Ethyl Ether	0.2072	0.2089	0.2266	0.1899	0.2012	0.1713		0.2008	9	AVG
Freon 123a	0.2670	0.2791	0.3394	0.2462	0.2752	0.2560		0.2772	12	AVG
Acrolein	1.7291	2.5963	2.3428	2.1312	2.0422	N/A		2.1683	15	AVG
1,1-Dichloroethene	*0.2393	0.2473	0.2726	0.2413	0.2347	0.2306		0.2443	6	AVG
Freon 113	0.2572	0.2636	0.2667	0.2326	0.2536	0.2540		0.2546	5	AVG
Acetone	0.1570	0.1535	0.1425	0.1292	0.1326	0.1374		0.1420	8	AVG
2-Propanol	0.8659	0.8834	0.9160	0.8298	0.8325	0.8077		0.8559	5	AVG
Methyl Iodide	0.4843	0.5157	0.5801	0.5054	0.4890	0.4842		0.5098	7	AVG
Carbon Disulfide	0.7712	0.8305	0.9783	0.8458	0.8248	0.8291		0.8466	8	AVG
Allyl Chloride	0.4338	0.4740	0.5146	0.4679	0.4646	0.4684		0.4706	5	AVG
Methyl Acetate	0.3564	0.3614	0.3868	0.3413	0.3392	0.3472		0.3554	5	AVG
Methylene Chloride	0.3099	0.3202	0.3445	0.2963	0.2863	0.2831		0.3067	8	AVG
t-Butyl Alcohol	1.3500	1.4149	1.4625	1.3139	1.2943	1.2753		1.3518	5	AVG
Acrylonitrile	0.1945	0.1980	0.1918	0.1691	0.1719	0.1786		0.1840	7	AVG
trans-1,2-Dichloroethene	0.2804	0.3038	0.3315	0.2844	0.2749	0.2678		0.2904	8	AVG
Methyl Tertiary Butyl Ether	0.9249	1.0083	1.0808	0.9631	0.9321	0.9278		0.9728	6	AVG
n-Hexane	0.3983	0.4087	0.4019	0.3216	0.4016	0.4098		0.3903	9	AVG
1,2-Dichloroethene (total)	0.2856	0.3129	0.3409	0.2947	0.2830	0.2785		0.2993	8	AVG
1,1-Dichloroethane	#0.5162	0.5521	0.6001	0.5195	0.5021	0.5075		0.5329	7	AVG
di-Isopropyl Ether	1.0210	1.1152	1.1979	1.0426	1.0135	0.9950		1.0642	7	AVG
2-Chloro-1,3-Butadiene	0.4228	0.4593	0.4979	0.4359	0.4280	0.4385		0.4471	6	AVG
Ethyl t-Butyl Ether	0.8914	0.9941	1.0694	0.9484	0.9119	0.9125		0.9546	7	AVG
cis-1,2-Dichloroethene	0.2909	0.3221	0.3503	0.3050	0.2910	0.2891		0.3081	8	AVG
2-Butanone	0.2831	0.2976	0.2552	0.2339	0.2292	0.2379		0.2561	11	AVG
2,2-Dichloropropane	0.3460	0.4006	0.4458	0.3991	0.3913	0.4044		0.3979	8	AVG
Propionitrile	1.7832	1.8128	1.9044	1.6812	1.5935	1.5708		1.7243	8	AVG
Methacrylonitrile	0.1884	0.1994	0.2067	0.1861	0.1827	0.1777		0.1902	6	AVG
Bromochloromethane	0.1423	0.1573	0.1688	0.1513	0.1510	0.1525		0.1539	6	AVG
Tetrahydrofuran	1.7356	1.6523	1.4995	1.2959	1.3034	1.3041		1.4651	13	AVG
Chloroform	*0.4923	0.5312	0.5807	0.5042	0.4865	0.4940		0.5148	7	AVG
1,1,1-Trichloroethane	0.5220	0.5039	0.5421	0.4396	0.4380	0.4576		0.4839	9	AVG
Cyclohexane	0.4973	0.5214	0.5235	0.4222	0.4940	0.5076		0.4943	8	AVG
Cyclohexane(mz 84)	0.4097	0.4154	0.4199	0.3382	0.4022	0.4093		0.3991	8	AVG
Cyclohexane(mz 69)	0.1461	0.1486	0.1502	0.1219	0.1436	0.1479		0.1431	7	AVG
1,1-Dichloropropene	0.3861	0.4180	0.4517	0.3832	0.3837	0.3882		0.4018	7	AVG
Carbon Tetrachloride	0.3189	0.3619	0.3961	0.3527	0.3656	0.3967		0.3653	8	AVG
Isobutyl Alcohol	0.4865	0.4984	0.5190	0.4582	0.4466	0.4542		0.4771	6	AVG
Benzene	1.1401	1.2547	1.3494	1.1590	1.1260	1.0847		1.1856	8	AVG
1,2-Dichloroethane	0.4066	0.4414	0.4730	0.4131	0.4065	0.4228		0.4272	6	AVG
1,2-Dichloroethane(mz 98)	0.0355	0.0391	0.0408	0.0356	0.0347	0.0339		0.0366	7	AVG
t-Amyl Methyl Ether	0.8392	0.9437	1.0221	0.9066	0.8844	0.9074		0.9172	7	AVG
n-Heptane	0.4313	0.4290	0.4302	0.3295	0.4451	0.4517		0.4195	11	AVG
n-Butanol	0.3877	0.4159	0.4402	0.3873	0.3930	0.3975		0.4036	5	AVG
Trichloroethene	0.2941	0.3184	0.3363	0.2893	0.2926	0.2998		0.3051	6	AVG
Methylcyclohexane	0.4767	0.5117	0.5338	0.4615	0.4809	0.4965		0.4935	5	AVG

Minimum RRF for SPCC(%) = 0.10
 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
 Maximum %RSD for CCC(%) = 30%

PTL05 0101

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID: HP09915 Calibration Date(s): 03/04/10 03/04/10
 Heated Purge: (Y/N) Y Calibration Times: 12:18 15:18
 Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 4 = lm04i07.d RRF 10= lm04i05.d RRF 20= lm04i04.d
 RRF 50= lm04i03.d RRF100= lm04i02.d RRF300= lm04i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	RRF	% RSD	CAL. METHOD
Methylcyclohexane(mz98)	0.2174	0.2323	0.2382	0.2063	0.2149	0.2238		0.2221	5	AVG
1,2-Dichloropropane	0.3188	0.3480	0.3816	0.3154	0.3213	0.3068		0.3320	8	AVG
Dibromomethane	0.2046	0.2217	0.2376	0.2053	0.2086	0.2144		0.2154	6	AVG
Methyl Methacrylate	0.2882	0.3150	0.3356	0.2943	0.3026	0.3043		0.3067	5	AVG
1,4-Dioxane	0.1219	0.1386	0.1430	0.1203	0.1257	0.1190		0.1281	8	AVG
Bromodichloromethane	0.3242	0.3634	0.4069	0.3569	0.3634	0.3879		0.3671	8	AVG
2-Nitropropane	0.1064	0.1149	0.1033	0.1084	0.1069	0.1219		0.1103	6	AVG
2-Chloroethyl Vinyl Ether	0.2464	0.2686	0.2763	0.2420	0.2687	0.2725		0.2624	6	AVG
cis-1,3-Dichloropropene	0.4245	0.4926	0.5495	0.4774	0.4908	0.5091		0.4906	8	AVG
4-Methyl-2-Pentanone	0.6468	0.7066	0.5342	0.5527	0.4846	0.5050		0.5717	15	AVG
Toluene	0.9716	1.0640	1.1132	0.9275	0.9574	0.9588		0.9987	7	AVG
trans-1,3-Dichloropropene	0.5305	0.6169	0.7107	0.6491	0.6560	0.6738		0.6395	10	AVG
Ethyl Methacrylate	0.6391	0.7251	0.7866	0.7050	0.7007	0.6944		0.7085	7	AVG
1,1,2-Trichloroethane	0.3732	0.4090	0.4431	0.3844	0.3829	0.3768		0.3949	7	AVG
Tetrachloroethene	0.4106	0.4493	0.4650	0.3833	0.4140	0.4209		0.4238	7	AVG
1,3-Dichloropropane	0.6777	0.7349	0.7892	0.6888	0.6751	0.6384		0.7007	8	AVG
2-Hexanone	0.6787	0.7880	0.5614	0.6060	N/A	N/A		0.6585	15	AVG
Dibromochloromethane	0.3481	0.4017	0.4598	0.4239	0.4307	0.4612		0.4209	10	AVG
1,2-Dibromoethane	0.4086	0.4600	0.4941	0.4411	0.4391	0.4411		0.4473	6	AVG
Chlorobenzene	#1.0908	1.2167	1.2753	1.1096	1.1083	1.0500		1.1418	7	AVG
1,1,1,2-Tetrachloroethane	0.3350	0.3972	0.4292	0.3838	0.3954	0.4048		0.3909	8	AVG
Ethylbenzene	*1.8201	2.0426	2.1426	1.7885	1.8981	1.7645		1.9094	8	AVG
m,p-Xylene	0.7036	0.8041	0.8478	0.7016	0.7095	0.6112		0.7296	12	AVG
Xylene (Total)	0.6949	0.7979	0.8349	0.6942	0.7093	0.6100		0.7235	11	AVG
o-Xylene	0.6777	0.7854	0.8091	0.6793	0.7091	0.6075		0.7113	11	AVG
Styrene	1.0861	1.2932	1.3357	1.1823	1.2078	1.0091		1.1857	10	AVG
Bromoform	#0.2581	0.3003	0.3406	0.3354	0.3482	0.3918		0.3291	14	AVG
Isopropylbenzene	1.7178	1.8322	1.8927	1.6009	1.8038	1.7303		1.7629	6	AVG
Cyclohexanone	0.4259	0.4742	0.4797	0.4488	0.4516	0.4518		0.4554	4	AVG
1,1,2,2-Tetrachloroethane	#1.1304	1.2451	1.2651	1.1457	1.1247	0.9391		1.1417	10	AVG
Bromobenzene	0.8234	0.9003	0.9368	0.8017	0.8392	0.7449		0.8411	8	AVG
1,2,3-Trichloropropane	0.3266	0.3531	0.3547	0.3272	0.3201	0.2764		0.3263	9	AVG
trans-1,4-Dichloro-2-Butene	0.3323	0.3497	0.3625	0.3389	0.3507	0.3058		0.3400	6	AVG
n-Propylbenzene	0.9452	0.9762	0.9972	0.8249	0.9259	0.8251		0.9157	8	AVG
2-Chlorotoluene	0.7828	0.8429	0.8519	0.7292	0.7731	0.7013		0.7802	8	AVG
1,3,5-Trimethylbenzene	1.2946	1.4216	1.4688	1.2311	1.3372	1.1740		1.3212	8	AVG
4-Chlorotoluene	0.8375	0.9005	0.9146	0.7800	0.8261	0.7046		0.8272	9	AVG
tert-Butylbenzene	0.6187	0.6460	0.6896	0.5557	0.6101	0.5413		0.6102	9	AVG
Pentachloroethane	0.4345	0.4884	0.5506	0.5095	0.5487	0.5356		0.5112	9	AVG
1,2,4-Trimethylbenzene	2.7653	2.9353	3.1880	2.5942	2.8666	2.4549		2.8007	9	AVG
sec-Butylbenzene	0.6963	0.7294	0.7702	0.6216	0.7274	0.6533		0.6997	8	AVG
1,3-Dichlorobenzene	1.6076	1.7054	1.7966	1.5230	1.5778	1.5169		1.6212	7	AVG
p-Isopropyltoluene	0.7820	0.8447	0.9303	0.7461	0.8261	0.7522		0.8136	9	AVG
1,4-Dichlorobenzene	1.7090	1.8405	1.8825	1.6069	1.6748	1.6171		1.7218	7	AVG
1,2,3-Trimethylbenzene	1.2075	1.2851	1.3719	1.2491	1.2604	1.1885		1.2604	5	AVG
Benzyl Chloride	1.5513	1.9183	2.2519	2.2182	2.3188	2.3926		2.1085	15	AVG
1,3-Diethylbenzene	1.7063	1.8179	1.9591	1.8082	1.8240	1.6987		1.8024	5	AVG
1,4-Diethylbenzene	1.6918	1.7704	1.9598	1.7533	1.8050	1.6685		1.7748	6	AVG
n-Butylbenzene	1.4573	1.4863	1.6931	1.3593	1.5995	1.3266		1.4870	9	AVG
1,2-Dichlorobenzene	1.5220	1.6243	1.7674	1.4931	1.5742	1.5446		1.5876	6	AVG
1,2-Diethylbenzene	1.3894	1.4428	1.6085	1.4464	1.4950	1.3848		1.4612	6	AVG
1,2-Dibromo-3-Chloropropane	0.2083	0.2241	0.2692	0.2460	0.2615	0.2454		0.2424	9	AVG

Minimum RRF for SPCC(#) = 0.10
 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
 Maximum %RSD for CCC(*) = 30%

PTL05 @182

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Instrument ID: HP09915 Calibration Date(s): 03/04/10 03/04/10
Heated Purge: (Y/N) Y Calibration Times: 12:18 15:18
Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 4 = lm04i07.d RRF 10= lm04i05.d RRF 20= lm04i04.d
RRF 50= lm04i03.d RRF100= lm04i02.d RRF300= lm04i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	RRF	% RSD	CAL. METHOD
1,3,5-Trichlorobenzene	1.2023	1.2700	1.4672	1.2628	1.4008	1.1502		1.2922	9	AVG
1,2,4-Trichlorobenzene	1.1336	1.1990	1.3388	1.1178	1.3080	1.0427		1.1900	10	AVG
Hexachlorobutadiene	0.5048	0.5166	0.5698	0.4585	0.6279	0.4831		0.5268	12	AVG
Naphthalene	3.2359	3.5348	4.0051	3.4002	3.6607	3.0184		3.4758	10	AVG
1,2,3-Trichlorobenzene	1.0141	1.1132	1.2721	1.0650	1.2266	0.9242		1.1025	12	AVG
Dibromofluoromethane	0.2390	0.2421	0.2462	0.2482	0.2475	0.2467		0.2450	1	AVG
Dibromofluoromethane(mz111)	0.2491	0.2490	0.2508	0.2528	0.2556	0.2524		0.2516	1	AVG
1,2-Dichloroethane-d4	0.0568	0.0574	0.0562	0.0564	0.0556	0.0567		0.0565	1	AVG
1,2-Dichloroethane-d4(mz65)	0.2905	0.2930	0.2868	0.2878	0.2846	0.2945		0.2895	1	AVG
1,2-Dichloroethane-d4(mz104)	0.0360	0.0362	0.0358	0.0360	0.0362	0.0363		0.0361	0	AVG
Toluene-d8	1.3480	1.3386	1.3374	1.2892	1.3442	1.3053		1.3271	2	AVG
Toluene-d8(mz100)	0.8553	0.8566	0.8624	0.8241	0.8715	0.8440		0.8523	2	AVG
4-Bromofluorobenzene	0.4900	0.4909	0.4724	0.4858	0.5076	0.5231		0.4950	4	AVG
4-Bromofluorobenzene(mz174)	0.4195	0.4154	0.4041	0.4114	0.4242	0.4426		0.4195	3	AVG

Average %RSD 8

Minimum RRF for SPCC(%) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

PTL05 0183

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP09915.i/10mar04c.b/lm04i01.d VSTD300
/chem/HP09915.i/10mar04c.b/lm04i02.d VSTD100
/chem/HP09915.i/10mar04c.b/lm04i03.d VSTD050
/chem/HP09915.i/10mar04c.b/lm04i04.d VSTD020
/chem/HP09915.i/10mar04c.b/lm04i05.d VSTD010
/chem/HP09915.i/10mar04c.b/lm04i07.d VSTD004

Area Summary

File ID:

Internal Standard Name	lm04i01.d	lm04i02.d	lm04i03.d	lm04i04.d	lm04i05.d	lm04i07.d	Avg. Area	trSD	In Spec
t-Butyl Alcohol-d10	256589	266794	260195	219335	229799	221826	242423	9	Yes
Fluorobenzene	1125767	1212574	1188208	1035582	1070402	1082917	1119242	6	Yes
Chlorobenzene-d5	837881	882366	876148	753004	779467	788106	819495	7	Yes
1,4-Dichlorobenzene-d4	514536	506854	502795	428966	442544	444142	473306	8	Yes

trSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

File ID:

Internal Standard Name	lm04i01.d	lm04i02.d	lm04i03.d	lm04i04.d	lm04i05.d	lm04i07.d	Avg. RT
t-Butyl Alcohol-d10	3.797	3.794	3.793	3.797	3.793	3.777	3.792
Fluorobenzene	7.266	7.269	7.272	7.266	7.269	7.260	7.267
Chlorobenzene-d5	10.848	10.845	10.845	10.845	10.845	10.845	10.845
1,4-Dichlorobenzene-d4	12.745	12.745	12.742	12.742	12.745	12.745	12.744

* indicates the retention time is greater than 30 seconds from the average RT.

Report generated on 03/04/2010 at 15:48.

PTL05 0184

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID: HP09915 ICV Date: 03/04/10 Time: 15:59
 Lab File ID: lm04v01.d Init. Calib. Date(s): 03/04/10 03/04/10
 Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT
Dichlorodifluoromethane	0.4383	0.3468	15.83	20	-21
# Chloromethane	0.2795	0.2996	21.44	20	7 #
* Vinyl Chloride	0.2612	0.2962	22.68	20	13 *
Bromomethane	0.1835	0.1441	15.70	20	-22
Chloroethane	0.1394	0.1212	16.33	20	-18
Dichlorofluoromethane	0.4204	0.4213	20.05	20	0
Trichlorofluoromethane	0.4685	0.4806	20.52	20	3
Ethyl Ether	0.2008	0.2173	21.64	20	8
Freon 123a	0.2772	0.2654	19.15	20	-4
Acrolein	2.1683	1.1878	82.17	150	-45
* 1,1-Dichloroethene	0.2443	0.2729	22.34	20	12 *
Freon 113	0.2546	0.2955	23.21	20	16
Acetone	0.1420	0.1399	147.73	150	-2
2-Propanol	0.8559	0.8477	148.57	150	-1
Methyl Iodide	0.5098	0.5543	21.74	20	9
Carbon Disulfide	0.8466	0.9294	21.96	20	10
Allyl Chloride	0.4706	0.4956	21.07	20	5
Methyl Acetate	0.3554	0.3721	20.94	20	5
Methylene Chloride	0.3067	0.3241	21.14	20	6
t-Butyl Alcohol	1.3518	1.3327	197.17	200	-1
Acrylonitrile	0.1840	0.1788	97.17	100	-3
trans-1,2-Dichloroethene	0.2904	0.3084	21.24	20	6
Methyl Tertiary Butyl Ether	0.9728	1.0069	20.70	20	3
n-Hexane	0.3903	0.4810	24.65	20	23
1,2-Dichloroethene (total)	0.2993	0.3179	42.50	40	6
# 1,1-Dichloroethane	0.5329	0.5600	21.02	20	5 #
di-Isopropyl Ether	1.0642	1.1188	21.03	20	5
2-Chloro-1,3-Butadiene	0.4471	0.4973	22.24	20	11
Ethyl t-Butyl Ether	0.9546	0.9714	20.35	20	2
cis-1,2-Dichloroethene	0.3081	0.3274	21.26	20	6
2-Butanone	0.2561	0.2482	145.34	150	-3
2,2-Dichloropropane	0.3979	0.4025	20.24	20	1
Propionitrile	1.7243	1.7104	148.79	150	-1
Methacrylonitrile	0.1902	0.1918	151.31	150	1
Bromochloromethane	0.1539	0.1590	20.66	20	3
Tetrahydrofuran	1.4651	1.4523	99.13	100	-1

Minimum RRF for SPCC(=)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane) PTL05 0185
 Maximum %Drift for CCC(*)=20%

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID: HP09915 ICV Date: 03/04/10 Time: 15:59
 Lab File ID: lm04v01.d Init. Calib. Date(s): 03/04/10 03/04/10
 Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT
* Chloroform	0.5148	0.5223	20.29	20	1 *
1,1,1-Trichloroethane	0.4839	0.5008	20.70	20	4
Cyclohexane	0.4943	0.5602	22.66	20	13
1,1-Dichloropropene	0.4018	0.4262	21.21	20	6
Carbon Tetrachloride	0.3653	0.3630	19.87	20	-1
Isobutyl Alcohol	0.4771	0.4729	495.58	500	-1
Benzene	1.1856	1.2610	21.27	20	6
1,2-Dichloroethane	0.4272	0.4390	20.55	20	3
t-Amyl Methyl Ether	0.9172	0.9328	20.34	20	2
n-Heptane	0.4195	0.5146	24.54	20	23
n-Butanol	0.4036	0.4011	993.79	1000	-1
Trichloroethene	0.3051	0.3208	21.03	20	5
Methylcyclohexane	0.4935	0.5257	21.30	20	7
* 1,2-Dichloropropane	0.3320	0.3488	21.01	20	5 *
Dibromomethane	0.2154	0.2221	20.63	20	3
Methyl Methacrylate	0.3067	0.3165	20.64	20	3
1,4-Dioxane	0.1281	0.1322	515.95	500	3
Bromodichloromethane	0.3671	0.3758	20.47	20	2
2-Nitropropane	0.1103	0.0876	15.88	20	-21
2-Chloroethyl Vinyl Ether	0.2624	0.2674	20.38	20	2
cis-1,3-Dichloropropene	0.4906	0.4929	20.09	20	0
4-Methyl-2-Pentanone	0.5717	0.5068	88.65	100	-11
* Toluene	0.9987	1.0706	21.44	20	7 *
trans-1,3-Dichloropropene	0.6395	0.6447	20.16	20	1
Ethyl Methacrylate	0.7085	0.7570	21.37	20	7
1,1,2-Trichloroethane	0.3949	0.4160	21.07	20	5
Tetrachloroethene	0.4238	0.4625	21.82	20	9
1,3-Dichloropropane	0.7007	0.7536	21.51	20	8
2-Hexanone	0.6585	0.5367	81.51	100	-18
Dibromochloromethane	0.4209	0.4427	21.04	20	5
1,2-Dibromoethane	0.4473	0.4667	20.86	20	4
# Chlorobenzene	1.1418	1.2265	21.48	20	7 #
1,1,1,2-Tetrachloroethane	0.3909	0.3906	19.99	20	0
* Ethylbenzene	1.9094	2.0305	21.27	20	6 *
m+p-Xylene	0.7296	0.8027	44.00	40	10
Xylene (Total)	0.7235	0.8001	66.36	60	11

PTL05 0186

Minimum RRF for SPCC(=)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
 Maximum %Drift for CCC(*)=20%

INITIAL CALIBRATION VERIFICATION

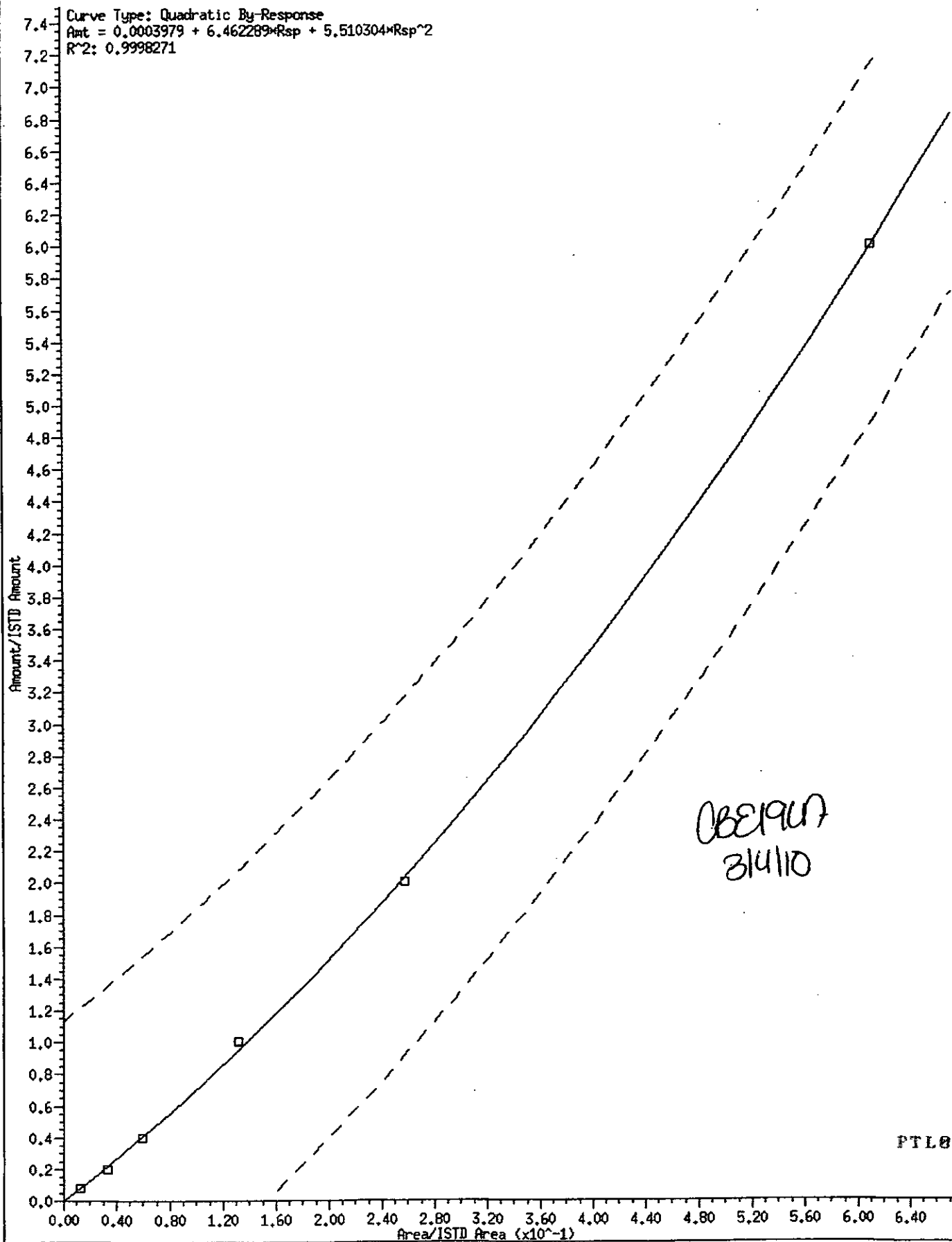
Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID: HP09915 ICV Date: 03/04/10 Time: 15:59
 Lab File ID: lm04v01.d Init. Calib. Date(s): 03/04/10 03/04/10
 Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT
o-Xylene	0.7113	0.7951	22.35	20	12
Styrene	1.1857	1.2835	21.65	20	8
# Bromoform	0.3291	0.3093	18.80	20	-6 #
Isopropylbenzene	1.7629	1.8632	21.14	20	6
Cyclohexanone	0.4554	0.4534	497.90	500	0
# 1,1,2,2-Tetrachloroethane	1.1417	1.1749	20.58	20	3 #
Bromobenzene	0.8411	0.8911	21.19	20	6
1,2,3-Trichloropropane	0.3263	0.3469	21.26	20	6
trans-1,4-Dichloro-2-Butene	0.3400	0.3627	106.68	100	7
n-Propylbenzene	0.9157	0.9582	20.93	20	5
2-Chlorotoluene	0.7802	0.8308	21.30	20	6
1,3,5-Trimethylbenzene	1.3212	1.3840	20.95	20	5
4-Chlorotoluene	0.8272	0.8700	21.03	20	5
tert-Butylbenzene	0.6102	0.6272	20.56	20	3
Pentachloroethane	0.5112	0.4957	19.39	20	-3
1,2,4-Trimethylbenzene	2.8007	2.9219	20.87	20	4
sec-Butylbenzene	0.6997	0.7330	20.95	20	5
1,3-Dichlorobenzene	1.6212	1.6974	20.94	20	5
p-Isopropyltoluene	0.8136	0.8713	21.42	20	7
1,4-Dichlorobenzene	1.7218	1.7952	20.85	20	4
1,2,3-Trimethylbenzene	1.2604	1.2963	20.57	20	3
Benzyl Chloride	2.1085	1.9647	18.64	20	-7
1,3-Diethylbenzene	1.8024	1.7871	19.83	20	-1
1,4-Diethylbenzene	1.7748	1.7972	20.25	20	1
n-Butylbenzene	1.4870	1.5503	20.85	20	4
1,2-Dichlorobenzene	1.5876	1.5926	20.06	20	0
1,2-Diethylbenzene	1.4612	1.4743	20.18	20	1
1,2-Dibromo-3-Chloropropane	0.2424	0.2379	19.63	20	-2
1,3,5-Trichlorobenzene	1.2922	1.3898	21.51	20	8
1,2,4-Trichlorobenzene	1.1900	1.2701	21.35	20	7
Hexachlorobutadiene	0.5268	0.5596	21.25	20	6
Naphthalene	3.4758	3.6055	20.75	20	4
1,2,3-Trichlorobenzene	1.1025	1.1526	20.91	20	5

Average %Drift 7

Minimum RRF for SPCC(=)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane) PTL05 0187
 Maximum %Drift for CCC(*)=20%

9 Chloroethane

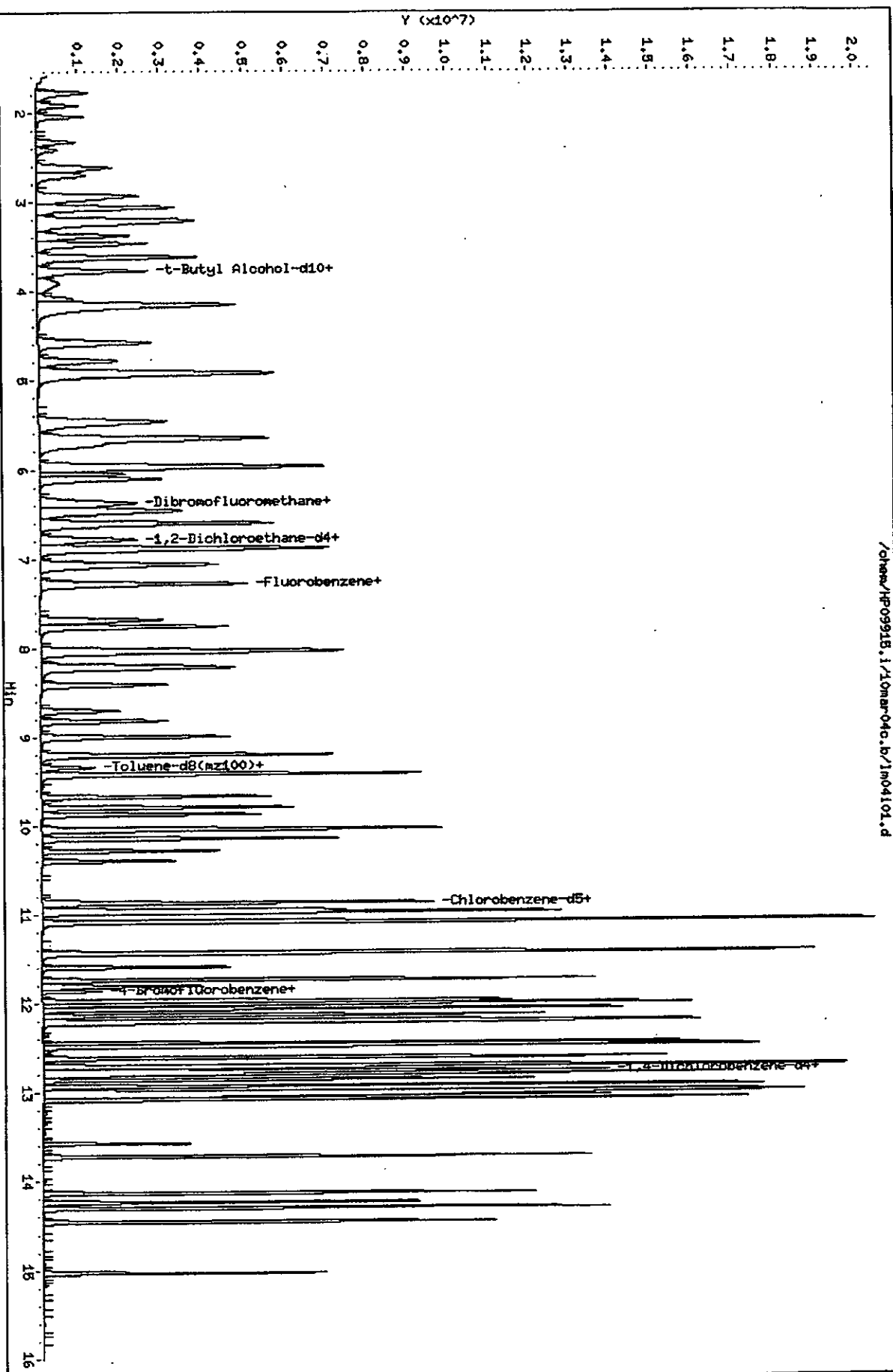


PTL05 0188

Data File: /chem/HP09915.1/10mar04c.b/1m04101.d
 Date: 04-MAR-2010 12:18
 Client ID: VSTD300
 Sample Info: VSTD300;VSTD300;1;1;1;1
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: HP09915.1
 Operator: CBEO1947
 Column diameter: 0.25

/chem/HP09915.1/10mar04c.b/1m04101.d



Handwritten signature: CBEO1947

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i01.d
Injection date and time: 04-MAR-2010 12:18

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 12:39 cbs01947

Sample Name: VSTD300

Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)	1.771	85	2762622	300.000
3) Chloromethane	(1)	1.916	50	1717661	300.000
4) Vinyl Chloride	(1)	2.041	62	1627129	300.000
7) Bromomethane	(1)	2.324	94	905117	0.000
9) Chloroethane	(1)	2.411	64	687041	300.000
10) Dichlorofluoromethane	(1)	2.604	67	2478985	300.000
11) Trichlorofluoromethane	(1)	2.700	101	3049970	300.000
13) Ethyl Ether	(1)	2.925	59	1156922	300.000
12) Freon 123a	(1)	2.957	67	1729344 A	300.000
16) Acrolein	(4)	3.060	56	4950305	0.000
17) 1,1-Dichloroethene	(1)	3.195	96	1557320	300.000
18) Freon 113	(1)	3.228	101	1715828	300.000
20) Acetone	(1)	3.224	43	1855690	600.000
21) 2-Propanol	(4)	3.382	45	1243470	1500.000
23) Methyl Iodide	(1)	3.372	142	3270586	300.000
24) Carbon Disulfide	(1)	3.465	76	5600361	300.000
28) Allyl Chloride	(1)	3.613	41	3164169	300.000
26) Methyl Acetate	(1)	3.626	43	2345314	300.000
29) Methylene Chloride	(1)	3.768	84	1911897	300.000
30) *t-Butyl Alcohol-d10	(4)	3.797	65	256589	250.000
31) t-Butyl Alcohol	(4)	3.906	59	1963434	1500.000
32) Acrylonitrile	(1)	4.080	53	1206234	300.000
33) trans-1,2-Dichloroethene	(1)	4.147	96	1808840	300.000
34) Methyl Tertiary Butyl Ether	(1)	4.170	73	6267119	300.000
35) n-Hexane	(1)	4.578	57	2768331	300.000
43) 1,2-Dichloroethene (total)	(1)		96	3761923	600.000
37) 1,1-Dichloroethane	(1)	4.777	63	3427775	300.000
40) di-Isopropyl Ether	(1)	4.909	45	6720568	300.000
41) 2-Chloro-1,3-Butadiene	(1)	4.922	53	2961674	300.000
42) Ethyl t-Butyl Ether	(1)	5.462	59	6163280	300.000
44) cis-1,2-Dichloroethene	(1)	5.642	96	1953083	300.000
47) 2-Butanone	(1)	5.658	43	3213324	600.000
45) 2,2-Dichloropropane	(1)	5.665	77	2731864	300.000
48) Propionitrile	(4)	5.732	54	2418254	1500.000

A = User selected an alternate hit.

* = Compound is an internal standard.

PTL05 0198

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i01.d
Injection date and time: 04-MAR-2010 12:18

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 12:39 cbs01947

Sample Name: VSTD300

Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
49) Methacrylonitrile	(1)	5.964	67	3001418	750.000
50) Bromochloromethane	(1)	5.986	128	1030206	300.000
51) Tetrahydrofuran	(4)	6.051	71	803054	600.000
53) Chloroform	(1)	6.108	83	3336865	300.000
56) 1,1,1-Trichloroethane	(1)	6.379	97	3090699	300.000
57) Cyclohexane	(1)	6.465	56	3428354	300.000
59) Cyclohexane (mz 84)	(1)	6.469	84	2764419	300.000
58) Cyclohexane (mz 69)	(1)	6.465	69	998668	300.000
60) 1,1-Dichloropropene	(1)	6.604	75	2621956	300.000
61) Carbon Tetrachloride	(1)	6.613	117	2679517	300.000
63) Isobutyl Alcohol	(4)	6.784	41	1748021	3750.000
67) Benzene	(1)	6.883	78	7326617	300.000
68) 1,2-Dichloroethane	(1)	6.899	62	2855907	300.000
69) 1,2-Dichloroethane (mz 98)	(1)	6.903	98	229140	300.000
71) t-Amyl Methyl Ether	(1)	7.067	73	6129387	300.000
72)*Fluorobenzene	(1)	7.266	96	1125767	50.000
73) n-Heptane	(1)	7.285	43	3051192	300.000
75) n-Butanol	(4)	7.687	56	3060103	7500.000
76) Trichloroethene	(1)	7.761	95	2025301	300.000
77) Methylcyclohexane	(1)	8.028	83	3353833	300.000
78) Methylcyclohexane (mz98)	(1)	8.028	98	1511501	300.000
79) 1,2-Dichloropropane	(1)	8.051	63	2072093	300.000
80) Dibromomethane	(1)	8.195	93	1447888	300.000
82) Methyl Methacrylate	(1)	8.227	69	2055612	300.000
83) 1,4-Dioxane	(4)	8.227	88	457882	3750.000
84) Bromodichloromethane	(1)	8.414	83	2620323	300.000
85) 2-Nitropropane	(1)	8.706	41	1647440	600.000
86) 2-Chloroethyl Vinyl Ether	(1)	8.822	63	1840309	300.000
87) cis-1,3-Dichloropropene	(1)	8.999	75	3438730	300.000
88) 4-Methyl-2-Pentanone	(1)	9.205	43	6822554	600.000
93) Toluene	(2)	9.423	92	4820109	300.000
94) trans-1,3-Dichloropropene	(2)	9.674	75	3387422	300.000
95) Ethyl Methacrylate	(2)	9.796	69	3490986	300.000
96) 1,1,2-Trichloroethane	(2)	9.874	97	1894318	300.000

* = Compound is an internal standard.

PTL05 0191

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i01.d
Injection date and time: 04-MAR-2010 12:18

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 12:39 cbs01947

Sample Name: VSTD300

Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
97) Tetrachloroethene	(2)	10.038	166	2116034	300.000
98) 1,3-Dichloropropane	(2)	10.054	76	3209514	300.000
100) 2-Hexanone	(2)	10.147	43	5233050	600.000
101) Dibromochloromethane	(2)	10.285	129	2318724	300.000
103) 1,2-Dibromoethane	(2)	10.394	107	2217774	300.000
104) *Chlorobenzene-d5	(2)	10.848	117	837881	50.000
105) Chlorobenzene	(2)	10.870	112	5278770	300.000
106) 1,1,1,2-Tetrachloroethane	(2)	10.947	131	2035241	300.000
107) Ethylbenzene	(2)	10.980	91	8870424	300.000
108) m+p-Xylene	(2)	11.086	106	6145466	600.000
112) Xylene (Total)	(2)		106	9199628	900.000
110) o-Xylene	(2)	11.430	106	3054162	300.000
111) Styrene	(2)	11.439	104	5073279	300.000
113) Bromoform	(2)	11.591	173	1969794	300.000
114) Isopropylbenzene	(2)	11.735	105	8698565	300.000
117) Cyclohexanone	(4)	11.806	55	1738951	3750.000
121) 1,1,2,2-Tetrachloroethane	(3)	11.967	83	2899191	300.000
122) Bromobenzene	(3)	11.983	156	2299714	300.000
123) 1,2,3-Trichloropropane	(3)	12.002	110	853222	300.000
124) trans-1,4-Dichloro-2-Butene	(3)	12.012	53	2359912	750.000
125) n-Propylbenzene	(3)	12.066	120	2547164	300.000
127) 2-Chlorotoluene	(3)	12.137	126	2165191	300.000
128) 1,3,5-Trimethylbenzene	(3)	12.198	120	3624306	300.000
129) 4-Chlorotoluene	(3)	12.218	126	2175281	300.000
131) tert-Butylbenzene	(3)	12.449	134	1670984	300.000
132) Pentachloroethane	(3)	12.468	167	1653569	300.000
133) 1,2,4-Trimethylbenzene	(3)	12.484	105	7578693	300.000
134) sec-Butylbenzene	(3)	12.613	134	2016757	300.000
135) 1,3-Dichlorobenzene	(3)	12.700	146	4683067	300.000
136) p-Isopropyltoluene	(3)	12.716	134	2322085	300.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	514536	50.000
139) 1,4-Dichlorobenzene	(3)	12.764	146	4992252	300.000
137) 1,2,3-Trimethylbenzene	(3)	12.796	120	3669265	300.000
140) Benzyl Chloride	(3)	12.857	91	7386421	300.000

* = Compound is an internal standard.

PTL05 8192

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 12:18 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 12:39 cbs01947

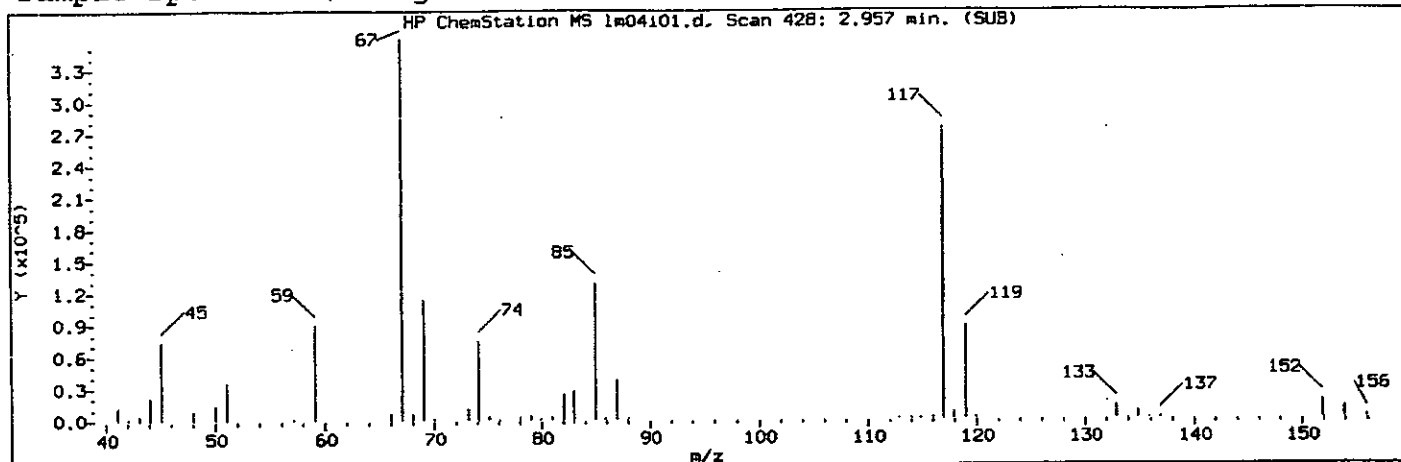
Sample Name: VSTD300

Lab Sample ID: VSTD300

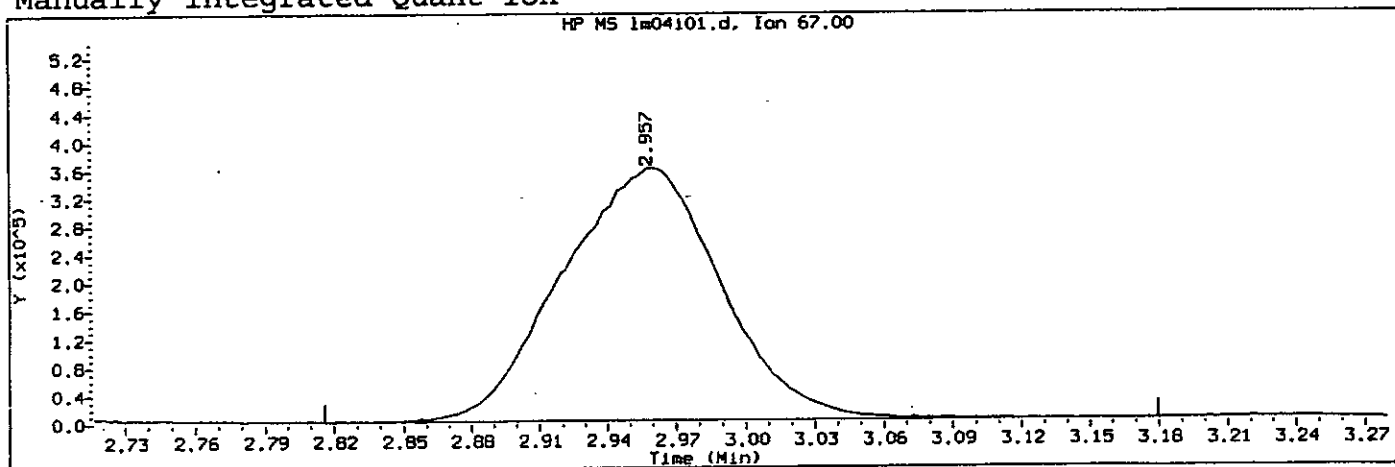
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
141) 1,3-Diethylbenzene	(3)	12.928	119	5244241	300.000
142) 1,4-Diethylbenzene	(3)	12.989	119	5151050	300.000
144) n-Butylbenzene	(3)	13.009	92	4095554	300.000
145) 1,2-Dichlorobenzene	(3)	13.034	146	4768435	300.000
143) 1,2-Diethylbenzene	(3)	13.076	119	4275168	300.000
146) 1,2-Dibromo-3-Chloropropane	(3)	13.568	75	757518	300.000
147) 1,3,5-Trichlorobenzene	(3)	13.719	180	3550832	300.000
148) 1,2,4-Trichlorobenzene	(3)	14.131	180	3219063	300.000
149) Hexachlorobutadiene	(3)	14.234	225	1491287	300.000
150) Naphthalene	(3)	14.298	128	9318320	300.000
152) 1,2,3-Trichlorobenzene	(3)	14.452	180	2853264	300.000
153) 2-Methylnaphthalene	(3)	15.028	142	2818835	300.000
54) \$Dibromofluoromethane	(1)	6.334	113	277772	50.000
55) \$Dibromofluoromethane (mz111)	(1)	6.334	111	284151	50.000
64) \$1,2-Dichloroethane-d4	(1)	6.793	102	63816	50.000
65) \$1,2-Dichloroethane-d4 (mz65)	(1)	6.797	65	331513	50.000
66) \$1,2-Dichloroethane-d4 (mz104)	(1)	6.800	104	40837	50.000
90) \$Toluene-d8	(2)	9.343	98	1093724	50.000
89) \$Toluene-d8 (mz100)	(2)	9.343	100	707134	50.000
119) \$4-Bromofluorobenzene	(2)	11.857	95	438295	50.000
118) \$4-Bromofluorobenzene (mz174)	(2)	11.857	174	370804	50.000

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04i01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 12:18 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:38
Date, time and analyst ID of latest file update: 04-Mar-2010 12:39 cbs01947

Sample Name: VSTD300

Lab Sample ID: VSTD300

Compound Number : 12
Compound Name : Freon 123a
Scan Number : 428
Retention Time (minutes): 2.957
Quant Ion : 67
Area (flag) : 1729344A
Concentration (ug/L) : 300.0000
Integration start scan : 383 Integration stop scan: 496
Y at integration start : 1967 Y at integration end: 1963

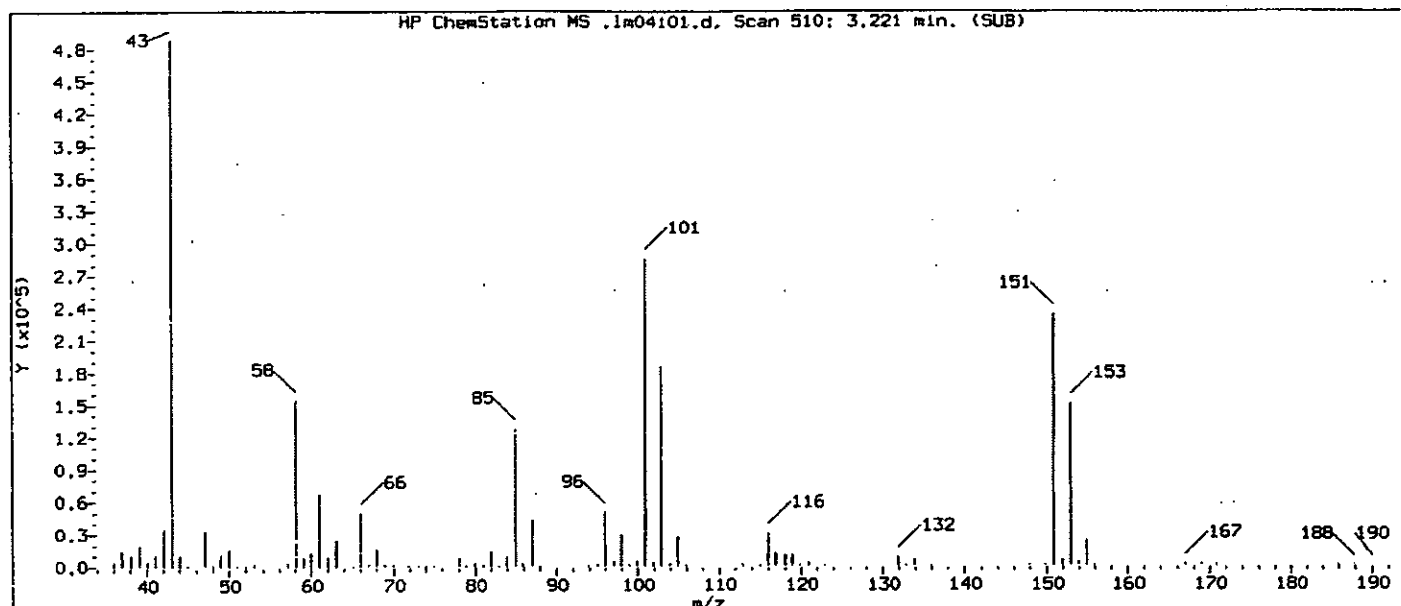
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: OBEIQUA 3/4/10

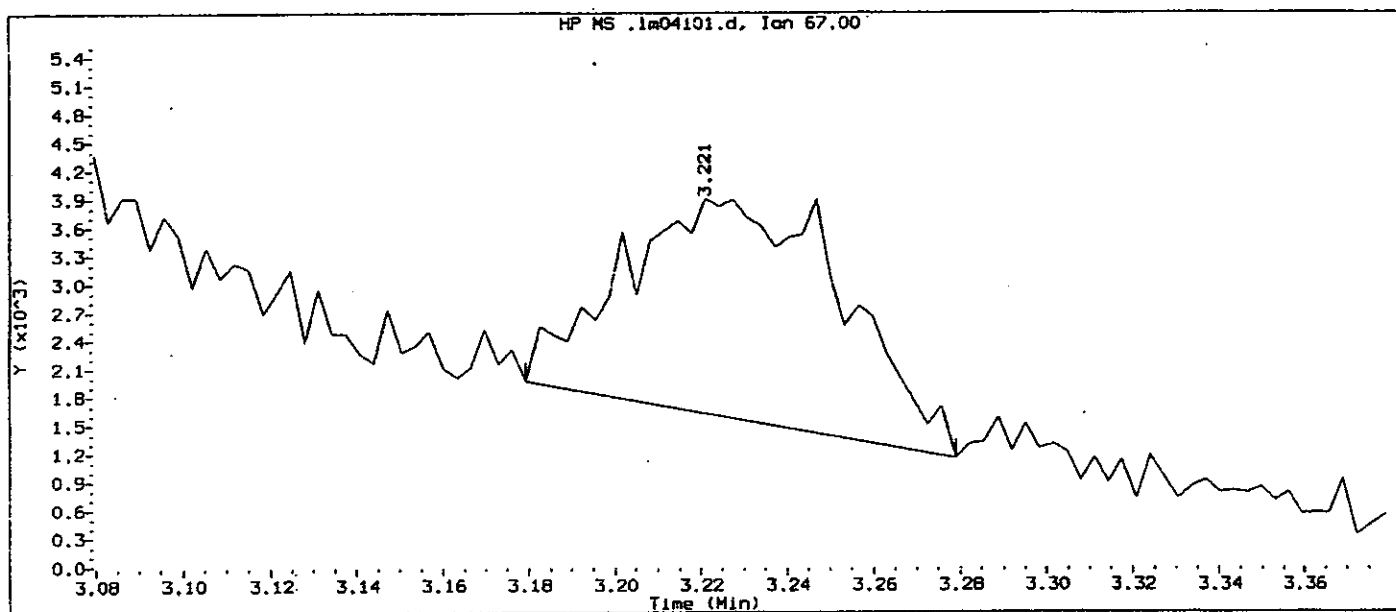
GC/MS audit/management approval: [Signature] 3/8/10

PTL05 0194

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04i01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 12:18 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:38
Date, time and analyst ID of latest file update: 04-Mar-2010 12:38 cbs01947

Sample Name: VSTD300

Lab Sample ID: VSTD300

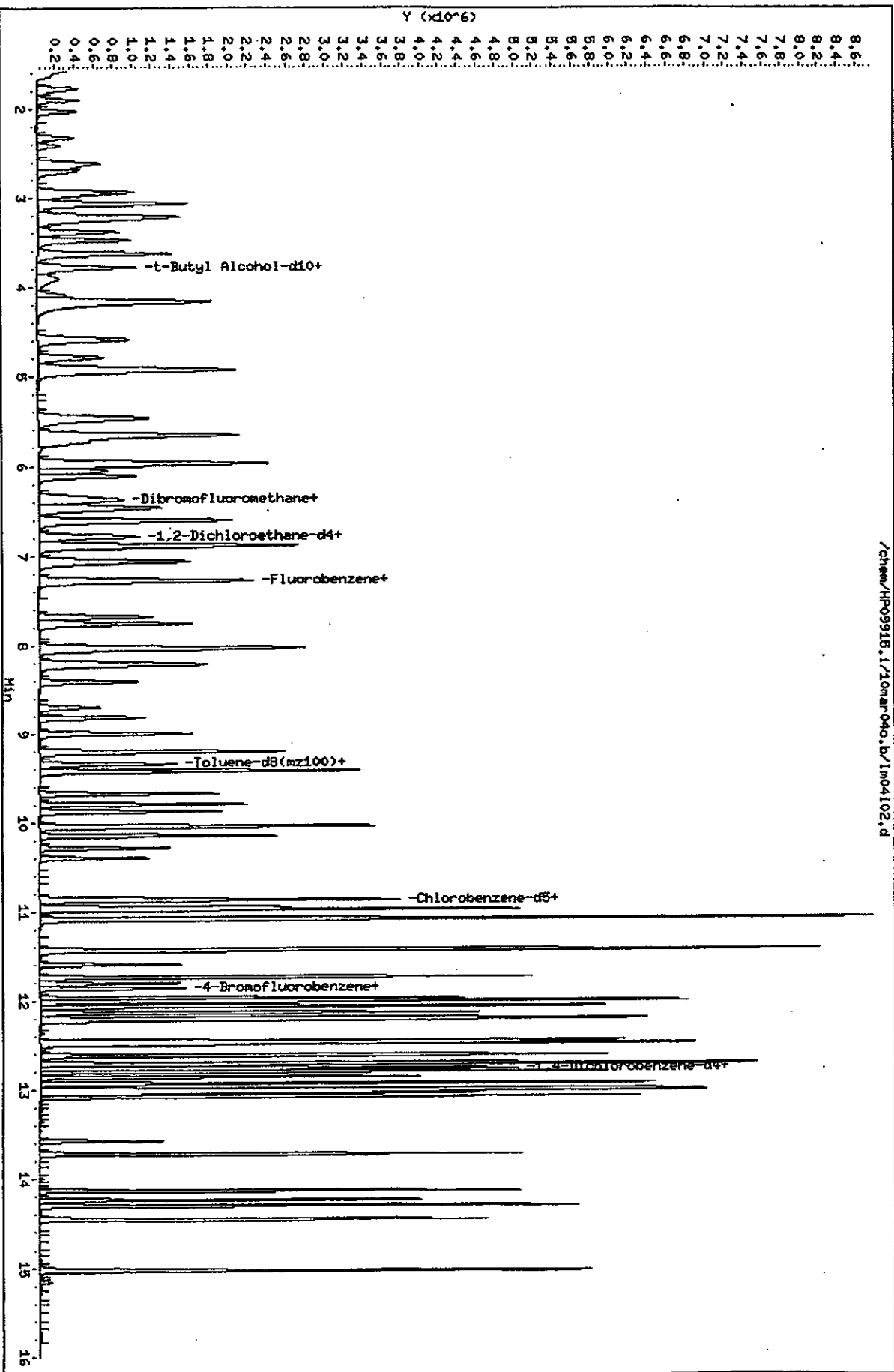
Compound Number : 12
Compound Name : Freon 123a
Scan Number : 510
Retention Time (minutes): 3.221
Quant Ion : 67
Area : 8319
Concentration (ug/L) : 300.0000
Integration start scan : 496 Integration stop scan: 527
Y at integration start : 1963 Y at integration end: 1139

PTL05 0195

Data File: /chem/HP0991B.1/10mar04o.b/1m04102.d
 Date: 04-Mar-2010 12:40
 Client ID: VSTD100
 Sample Info: VSTD1001VSTD100111111
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: HP0991B.1
 Operator: CBE01947
 Column diameter: 0.25

/chem/HP0991B.1/10mar04o.b/1m04102.d



062947
 314110

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i02.d
Injection date and time: 04-MAR-2010 12:40

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 13:35 cbs01947

Sample Name: VSTD100

Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)	1.774	85	1003245	100.601
3) Chloromethane	(1)	1.900	50	659956	104.848
4) Vinyl Chloride	(1)	2.028	62	611527	103.405
7) Bromomethane	(1)	2.321	94	380020	98.812
9) Chloroethane	(1)	2.414	64	312661	106.803
10) Dichlorofluoromethane	(1)	2.607	67	969830	103.468
11) Trichlorofluoromethane	(1)	2.700	101	1096262	101.556
13) Ethyl Ether	(1)	2.929	59	487907	107.320
12) Freon 123a	(1)	2.954	67	667423	106.198
16) Acrolein	(4)	3.064	56	2179337	978.666
17) 1,1-Dichloroethene	(1)	3.199	96	569202	99.653
18) Freon 113	(1)	3.237	101	615072	102.784
20) Acetone	(1)	3.231	43	643055	199.309
21) 2-Propanol	(4)	3.379	45	444193	495.918
23) Methyl Iodide	(1)	3.379	142	1185998	99.220
24) Carbon Disulfide	(1)	3.472	76	2000156	98.985
28) Allyl Chloride	(1)	3.620	41	1126669	99.485
26) Methyl Acetate	(1)	3.626	43	822636	99.018
29) Methylene Chloride	(1)	3.774	84	694422	99.232
30)*t-Butyl Alcohol-d10	(4)	3.794	65	266794	250.000
31) t-Butyl Alcohol	(4)	3.906	59	690601	499.905
32) Acrylonitrile	(1)	4.083	53	416864	99.256
33) trans-1,2-Dichloroethene	(1)	4.157	96	666581	99.703
34) Methyl Tertiary Butyl Ether	(1)	4.163	73	2260392	99.052
35) n-Hexane	(1)	4.581	57	973838	106.325
43) 1,2-Dichloroethene (total)	(1)		96	1372400	198.339
37) 1,1-Dichloroethane	(1)	4.784	63	1217664	98.508
40) di-Isopropyl Ether	(1)	4.912	45	2457918	99.655
41) 2-Chloro-1,3-Butadiene	(1)	4.929	53	1038006	98.591
42) Ethyl t-Butyl Ether	(1)	5.459	59	2211439	98.662
44) cis-1,2-Dichloroethene	(1)	5.646	96	705819	98.636
47) 2-Butanone	(1)	5.658	43	1111658	196.183
45) 2,2-Dichloropropane	(1)	5.662	77	948870	98.244
48) Propionitrile	(4)	5.736	54	850293	493.307

* = Compound is an internal standard.

PTL05 0197

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i02.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 12:40 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 13:35 cbs01947

Sample Name: VSTD100

Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
49) Methacrylonitrile	(1)	5.964	67	1107478	250.678
50) Bromochloromethane	(1)	5.986	128	366220	99.603
51) Tetrahydrofuran	(4)	6.054	71	278202	200.355
53) Chloroform	(1)	6.115	83	1179900	98.307
56) 1,1,1-Trichloroethane	(1)	6.382	97	1062162	98.415
57) Cyclohexane	(1)	6.469	56	1198093	104.097
59) Cyclohexane (mz 84)	(1)	6.469	84	975326	104.951
58) Cyclohexane (mz 69)	(1)	6.472	69	348256	104.225
60) 1,1-Dichloropropene	(1)	6.604	75	930577	99.656
61) Carbon Tetrachloride	(1)	6.613	117	886558	98.362
63) Isobutyl Alcohol	(4)	6.781	41	595747	1232.339
67) Benzene	(1)	6.887	78	2730743	100.248
68) 1,2-Dichloroethane	(1)	6.900	62	985909	98.163
69) 1,2-Dichloroethane (mz 98)	(1)	6.900	98	84254	99.949
71) t-Amyl Methyl Ether	(1)	7.064	73	2144798	98.323
72)*Fluorobenzene	(1)	7.269	96	1212574	50.000
73) n-Heptane	(1)	7.285	43	1079446	108.885
75) n-Butanol	(4)	7.684	56	1048529	2502.583
76) Trichloroethene	(1)	7.761	95	709641	99.552
77) Methylcyclohexane	(1)	8.028	83	1166273	100.266
78) Methylcyclohexane (mz98)	(1)	8.028	98	521154	99.963
79) 1,2-Dichloropropane	(1)	8.047	63	779185	102.163
80) Dibromomethane	(1)	8.195	93	505837	99.597
82) Methyl Methacrylate	(1)	8.224	69	733907	100.738
83) 1,4-Dioxane	(4)	8.231	88	167613	1291.070
84) Bromodichloromethane	(1)	8.411	83	881345	98.377
85) 2-Nitropropane	(1)	8.703	41	518452	190.165
86) 2-Chloroethyl Vinyl Ether	(1)	8.819	63	651637	102.936
87) cis-1,3-Dichloropropene	(1)	8.999	75	1190332	99.674
88) 4-Methyl-2-Pentanone	(1)	9.205	43	2350388	187.931
93) Toluene	(2)	9.420	92	1689588	101.002
94) trans-1,3-Dichloropropene	(2)	9.671	75	1157651	99.446
95) Ethyl Methacrylate	(2)	9.790	69	1236489	100.093
96) 1,1,2-Trichloroethane	(2)	9.870	97	675645	100.394

* = Compound is an internal standard.

PTL05 8198

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i02.d
Injection date and time: 04-MAR-2010 12:40

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 13:35 cbs01947

Sample Name: VSTD100

Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
97) Tetrachloroethene	(2)	10.034	166	730514	101.944
98) 1,3-Dichloropropane	(2)	10.051	76	1191352	101.145
100) 2-Hexanone	(2)	10.147	43	1759355	184.055
101) Dibromochloromethane	(2)	10.285	129	760097	98.198
103) 1,2-Dibromoethane	(2)	10.395	107	774933	99.696
104)*Chlorobenzene-d5	(2)	10.845	117	882366	50.000
105) Chlorobenzene	(2)	10.874	112	1955918	101.747
106) 1,1,1,2-Tetrachloroethane	(2)	10.951	131	697834	100.185
107) Ethylbenzene	(2)	10.977	91	3349552	104.460
108) m+p-Xylene	(2)	11.079	106	2504076	210.498
112) Xylene (Total)	(2)		106	3755396	317.079
110) o-Xylene	(2)	11.427	106	1251320	106.581
111) Styrene	(2)	11.436	104	2131504	106.597
113) Bromoform	(2)	11.591	173	614506	97.135
114) Isopropylbenzene	(2)	11.735	105	3183227	105.384
117) Cyclohexanone	(4)	11.806	55	602441	1252.421
121) 1,1,2,2-Tetrachloroethane	(3)	11.964	83	1140159	105.130
122) Bromobenzene	(3)	11.980	156	850706	105.525
123) 1,2,3-Trichloropropane	(3)	12.002	110	324446	103.952
124) trans-1,4-Dichloro-2-Butene	(3)	12.005	53	888762M	264.243
125) n-Propylbenzene	(3)	12.063	120	938555	107.834
127) 2-Chlorotoluene	(3)	12.137	126	783654	105.243
128) 1,3,5-Trimethylbenzene	(3)	12.198	120	1355529	107.196
129) 4-Chlorotoluene	(3)	12.218	126	837395	107.251
131) tert-Butylbenzene	(3)	12.452	134	618510	107.227
132) Pentachloroethane	(3)	12.468	167	556182	103.276
133) 1,2,4-Trimethylbenzene	(3)	12.481	105	2905885	108.642
134) sec-Butylbenzene	(3)	12.613	134	737408	108.988
135) 1,3-Dichlorobenzene	(3)	12.700	146	1599400	102.504
136) p-Isopropyltoluene	(3)	12.716	134	837453	106.624
138)*1,4-Dichlorobenzene-d4	(3)	12.745	152	506854	50.000
139) 1,4-Dichlorobenzene	(3)	12.764	146	1697717	102.562
137) 1,2,3-Trimethylbenzene	(3)	12.796	120	1277668	102.249
140) Benzyl Chloride	(3)	12.854	91	2350555	100.386

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL05 0199

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i02.d
 Injection date and time: 04-MAR-2010 12:40

Instrument ID: HP09915.i
 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
 Calibration date and time: 04-MAR-2010 12:18
 Date, time and analyst ID of latest file update: 04-Mar-2010 13:35 cbs01947

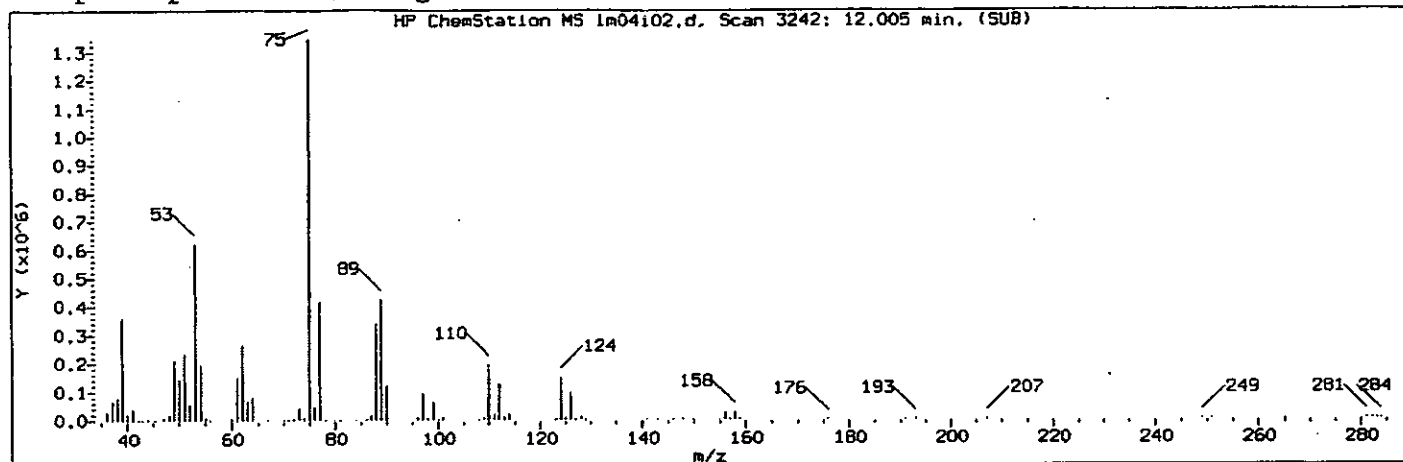
Sample Name: VSTD100

Lab Sample ID: VSTD100

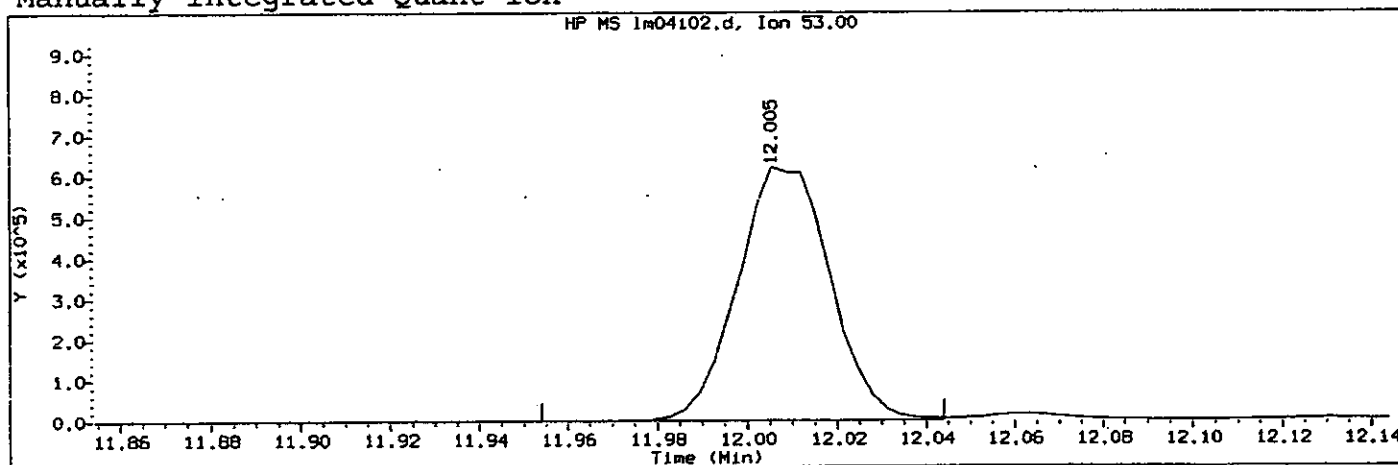
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
141) 1,3-Diethylbenzene	(3)	12.925	119	1849009	102.646
142) 1,4-Diethylbenzene	(3)	12.989	119	1829791	103.602
144) n-Butylbenzene	(3)	13.005	92	1621426	111.972
145) 1,2-Dichlorobenzene	(3)	13.034	146	1595733	102.400
143) 1,2-Diethylbenzene	(3)	13.073	119	1515514	103.672
146) 1,2-Dibromo-3-Chloropropane	(3)	13.568	75	265078	104.195
147) 1,3,5-Trichlorobenzene	(3)	13.716	180	1420023	110.191
148) 1,2,4-Trichlorobenzene	(3)	14.131	180	1325967	113.134
149) Hexachlorobutadiene	(3)	14.234	225	636524	120.026
150) Naphthalene	(3)	14.298	128	3710868	108.957
152) 1,2,3-Trichlorobenzene	(3)	14.449	180	1243421	114.429
153) 2-Methylnaphthalene	(3)	15.028	142	2572171	133.625
54) \$Dibromofluoromethane	(1)	6.337	113	300116	50.005
55) \$Dibromofluoromethane (mz111)	(1)	6.334	111	309900	50.393
64) \$1,2-Dichloroethane-d4	(1)	6.797	102	67391	49.417
65) \$1,2-Dichloroethane-d4 (mz65)	(1)	6.797	65	345149	49.250
66) \$1,2-Dichloroethane-d4 (mz104)	(1)	6.797	104	43876	50.060
90) \$Toluene-d8	(2)	9.343	98	1186110	51.193
89) \$Toluene-d8 (mz100)	(2)	9.343	100	768983	51.476
119) \$4-Bromofluorobenzene	(2)	11.858	95	447919	50.208
118) \$4-Bromofluorobenzene (mz174)	(2)	11.858	174	374342	49.787

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04i02.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 12:40 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:59
Date, time and analyst ID of latest file update: 04-Mar-2010 13:35 cbs01947

Sample Name: VSTD100

Lab Sample ID: VSTD100

Compound Number : 124
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 3242
Retention Time (minutes): 12.005
Quant Ion : 53
Area (flag) : 888762 M
Concentration (ug/L) : 264.2432
Integration start scan : 3225 Integration stop scan: 3253
Y at integration start : 0 Y at integration end: 0

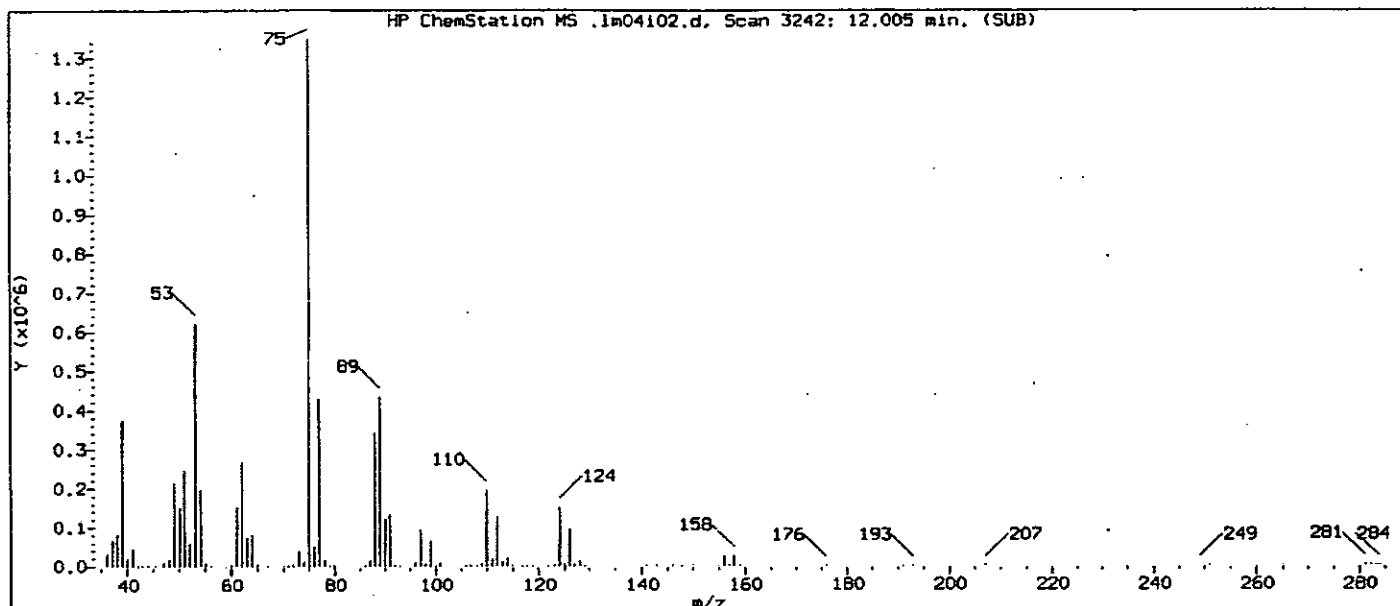
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: CBE01947 3/4/10

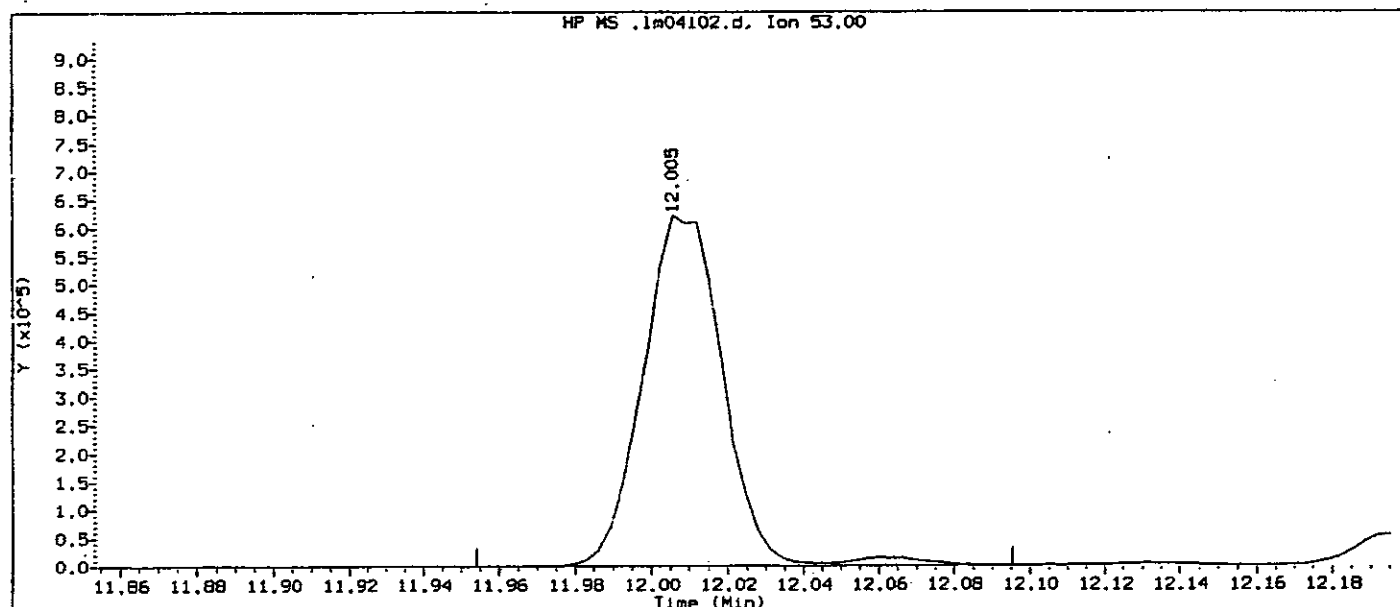
GC/MS audit/management approval: [Signature] 3/8/10

FTL05 0201

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04102.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 12:40 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:59
Date, time and analyst ID of latest file update: 04-Mar-2010 12:59 Automation

Sample Name: VSTD100

Lab Sample ID: VSTD100

Compound Number : 124
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 3242
Retention Time (minutes): 12.005
Quant Ion : 53
Area : 909412
Concentration (ug/L) : 269.9665
Integration start scan : 3225 Integration stop scan: 3269
Y at integration start : 0 Y at integration end: 0

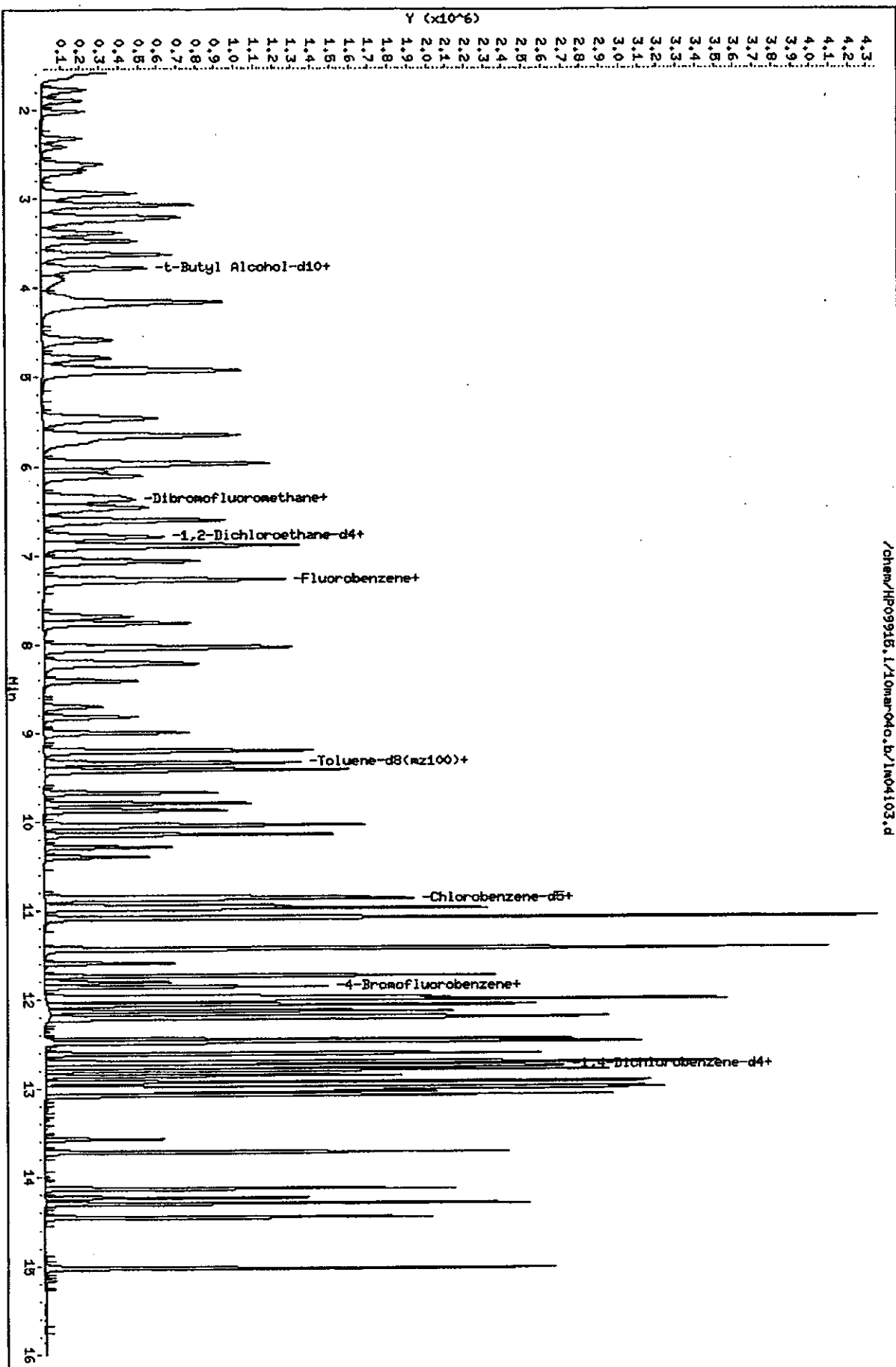
PTL05 0202

Data File: /chem/HP09915.1/10mar-04o.b/lm04103.d
 Date: 04-MAR-2010 13:02
 Client ID: VSTD050
 Sample Info: VSTD0501VSTD05011111
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: HP09915.1
 Operator: CBE01947
 Column diameter: 0.25

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 314110

PTL 08 0283
 Page 1



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i03.d
Injection date and time: 04-MAR-2010 13:02

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 13:36 cbs01947

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)	1.771	85	488294	49.968
3) Chloromethane	(1)	1.893	50	299687	48.588
4) Vinyl Chloride	(1)	2.015	62	283409	48.905
7) Bromomethane	(1)	2.321	94	190670	50.594
9) Chloroethane	(1)	2.414	64	156249	54.468
10) Dichlorofluoromethane	(1)	2.607	67	466482	50.788
11) Trichlorofluoromethane	(1)	2.700	101	513029	48.501
13) Ethyl Ether	(1)	2.935	59	225672	50.657
12) Freon 123a	(1)	2.951	67	292548	47.504
16) Acrolein	(4)	3.070	56	1109048	510.667
17) 1,1-Dichloroethene	(1)	3.202	96	286727	51.228
18) Freon 113	(1)	3.234	101	276393	47.135
20) Acetone	(1)	3.237	43	306974	97.095
21) 2-Propanol	(4)	3.385	45	215905M	251.965
23) Methyl Iodide	(1)	3.382	142	600532	51.271
24) Carbon Disulfide	(1)	3.472	76	1004949	50.753
28) Allyl Chloride	(1)	3.623	41	555991	50.101
26) Methyl Acetate	(1)	3.636	43	405534	49.814
29) Methylene Chloride	(1)	3.774	84	352039	51.338
30) *t-Butyl Alcohol-d10	(4)	3.793	65	260195	250.000
31) t-Butyl Alcohol	(4)	3.916	59	341874	253.748
32) Acrylonitrile	(1)	4.089	53	200888	48.813
33) trans-1,2-Dichloroethene	(1)	4.160	96	337913	51.579
34) Methyl Tertiary Butyl Ether	(1)	4.170	73	1144324	51.173
35) n-Hexane	(1)	4.588	57	382142	42.578
43) 1,2-Dichloroethene (total)	(1)		96	700324	103.264
37) 1,1-Dichloroethane	(1)	4.787	63	617330	50.965
40) di-Isopropyl Ether	(1)	4.916	45	1238802	51.257
41) 2-Chloro-1,3-Butadiene	(1)	4.928	53	517963	50.206
42) Ethyl t-Butyl Ether	(1)	5.465	59	1126888	51.307
44) cis-1,2-Dichloroethene	(1)	5.649	96	362411	51.685
47) 2-Butanone	(1)	5.668	43	555851	100.107
45) 2,2-Dichloropropane	(1)	5.662	77	474166	50.101
48) Propionitrile	(4)	5.742	54	437431	260.217

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL05 0204

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i03.d
Injection date and time: 04-MAR-2010 13:02

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 13:36 cbs01947

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
49) Methacrylonitrile	(1)	5.964	67	552839	127.701
50) Bromochloromethane	(1)	5.986	128	179782	49.899
51) Tetrahydrofuran	(4)	6.060	71	134877	99.599
53) Chloroform	(1)	6.115	83	599058	50.936
56) 1,1,1-Trichloroethane	(1)	6.382	97	522282	49.384
57) Cyclohexane	(1)	6.465	56	501619	44.477
59) Cyclohexane (mz 84)	(1)	6.469	84	401806	44.123
58) Cyclohexane (mz 69)	(1)	6.469	69	144830	44.233
60) 1,1-Dichloropropene	(1)	6.607	75	455369	49.766
61) Carbon Tetrachloride	(1)	6.616	117	419091	47.451
63) Isobutyl Alcohol	(4)	6.784	41	298070	632.214
67) Benzene	(1)	6.890	78	1377115	51.592
68) 1,2-Dichloroethane	(1)	6.906	62	490834	49.872
69) 1,2-Dichloroethane (mz 98)	(1)	6.903	98	42316	51.228
71) t-Amyl Methyl Ether	(1)	7.067	73	1077234	50.396
72)*Fluorobenzene	(1)	7.272	96	1188208	50.000
73) n-Heptane	(1)	7.288	43	391548	40.306
75) n-Butanol	(4)	7.684	56	503826	1233.008
76) Trichloroethene	(1)	7.761	95	343806	49.220
77) Methylcyclohexane	(1)	8.031	83	548322	48.106
78) Methylcyclohexane (mz98)	(1)	8.031	98	245079	47.973
79) 1,2-Dichloropropane	(1)	8.051	63	374772	50.146
80) Dibromomethane	(1)	8.198	93	243983	49.024
82) Methyl Methacrylate	(1)	8.227	69	349647	48.978
83) 1,4-Dioxane	(4)	8.227	88	78281	618.266
84) Bromodichloromethane	(1)	8.414	83	424063	48.305
85) 2-Nitropropane	(1)	8.706	41	257643	96.440
86) 2-Chloroethyl Vinyl Ether	(1)	8.822	63	287491	46.345
87) cis-1,3-Dichloropropene	(1)	8.999	75	567224	48.471
88) 4-Methyl-2-Pentanone	(1)	9.205	43	1313483M	107.509
93) Toluene	(2)	9.423	92	812670	48.926
94) trans-1,3-Dichloropropene	(2)	9.674	75	568746	49.204
95) Ethyl Methacrylate	(2)	9.796	69	617665	50.354
96) 1,1,2-Trichloroethane	(2)	9.874	97	336797	50.400

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL05 0205

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i03.d
Injection date and time: 04-MAR-2010 13:02

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 13:36 cbs01947

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
97) Tetrachloroethene	(2)	10.034	166	335834	47.199
98) 1,3-Dichloropropane	(2)	10.050	76	603514	51.602
100) 2-Hexanone	(2)	10.147	43	1061964	111.886
101) Dibromochloromethane	(2)	10.285	129	371409	48.324
103) 1,2-Dibromoethane	(2)	10.394	107	386478	50.074
104) *Chlorobenzene-d5	(2)	10.845	117	876148	50.000
105) Chlorobenzene	(2)	10.874	112	972150	50.930
106) 1,1,1,2-Tetrachloroethane	(2)	10.951	131	336296	48.623
107) Ethylbenzene	(2)	10.976	91	1566998	49.216
108) m+p-Xylene	(2)	11.083	106	1229396	104.079
112) Xylene (Total)	(2)		106	1824544	155.131
110) o-Xylene	(2)	11.430	106	595148	51.051
111) Styrene	(2)	11.436	104	1035840	52.170
113) Bromoform	(2)	11.587	173	293883	46.784
114) Isopropylbenzene	(2)	11.735	105	1402607	46.764
117) Cyclohexanone	(4)	11.806	55	291938	622.305
121) 1,1,2,2-Tetrachloroethane	(3)	11.964	83	576075	53.546
122) Bromobenzene	(3)	11.980	156	403082	50.403
123) 1,2,3-Trichloropropane	(3)	12.002	110	164537	53.143
124) trans-1,4-Dichloro-2-Butene	(3)	12.009	53	426018	127.684
125) n-Propylbenzene	(3)	12.063	120	414740	48.036
127) 2-Chlorotoluene	(3)	12.137	126	366658	49.639
128) 1,3,5-Trimethylbenzene	(3)	12.195	120	619004	49.346
129) 4-Chlorotoluene	(3)	12.214	126	392174	50.634
131) tert-Butylbenzene	(3)	12.446	134	279384	48.826
132) Pentachloroethane	(3)	12.465	167	256171	47.952
133) 1,2,4-Trimethylbenzene	(3)	12.484	105	1304367	49.160
134) sec-Butylbenzene	(3)	12.610	134	312562	46.569
135) 1,3-Dichlorobenzene	(3)	12.700	146	765764	49.473
136) p-Isopropyltoluene	(3)	12.713	134	375144	48.149
138) *1,4-Dichlorobenzene-d4	(3)	12.742	152	502795	50.000
139) 1,4-Dichlorobenzene	(3)	12.761	146	807960	49.204
137) 1,2,3-Trimethylbenzene	(3)	12.793	120	628036	50.666
140) Benzyl Chloride	(3)	12.854	91	1115317	48.017

* = Compound is an internal standard.

PTL05 0206

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i03.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 13:02 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 13:36 cbs01947

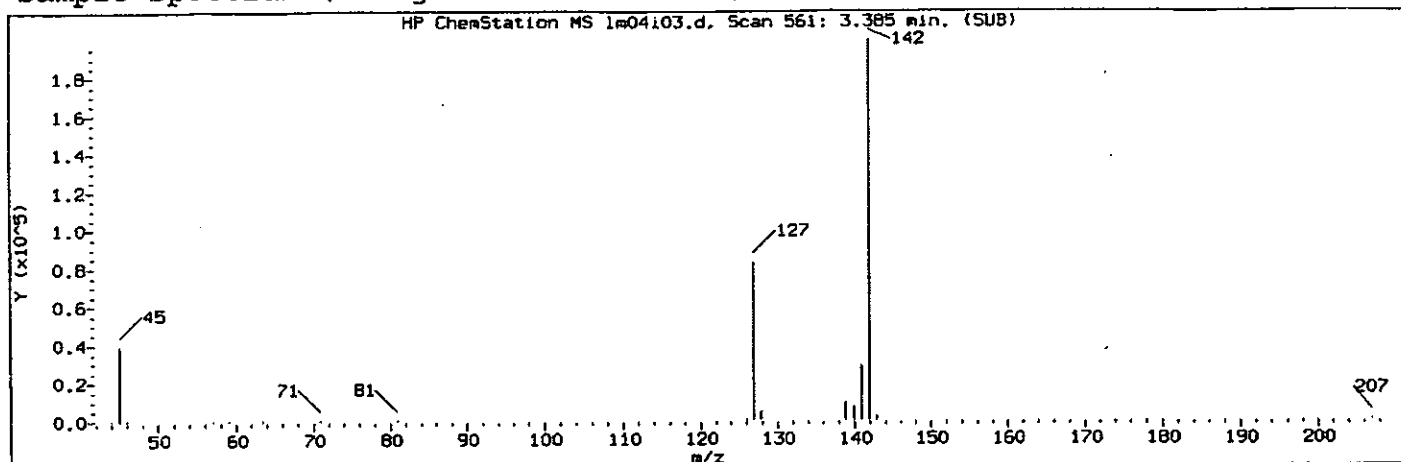
Sample Name: VSTD050

Lab Sample ID: VSTD050

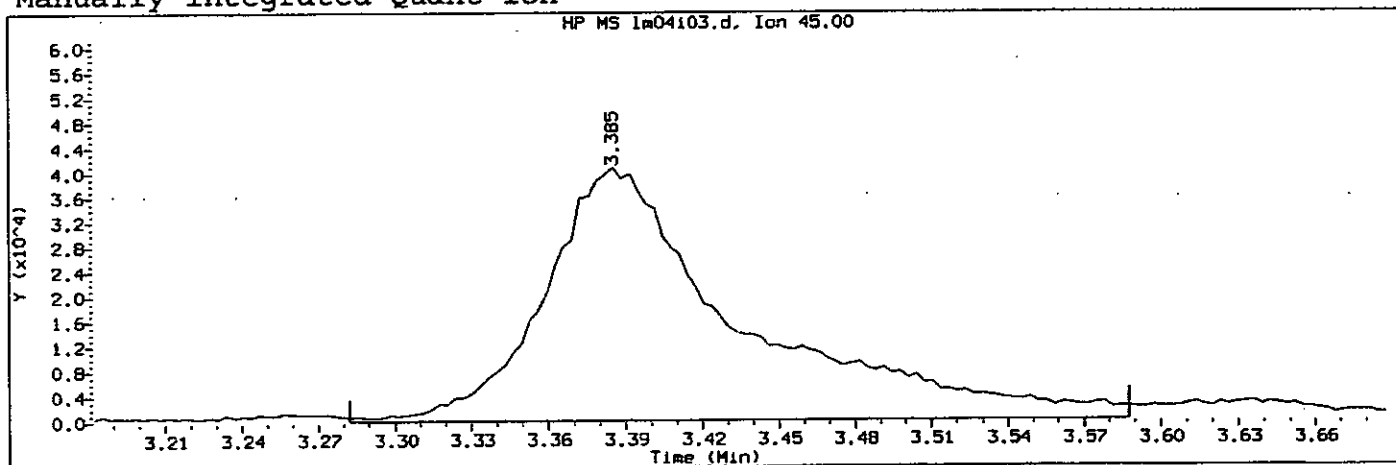
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
141) 1,3-Diethylbenzene	(3)	12.925	119	909172	50.879
142) 1,4-Diethylbenzene	(3)	12.986	119	881565	50.317
144) n-Butylbenzene	(3)	13.005	92	683470	47.580
145) 1,2-Dichlorobenzene	(3)	13.034	146	750704	48.562
143) 1,2-Diethylbenzene	(3)	13.073	119	727233	50.150
146) 1,2-Dibromo-3-Chloropropane	(3)	13.568	75	123703	49.017
147) 1,3,5-Trichlorobenzene	(3)	13.716	180	634937	49.667
148) 1,2,4-Trichlorobenzene	(3)	14.131	180	562021	48.340
149) Hexachlorobutadiene	(3)	14.230	225	230522	43.819
150) Naphthalene	(3)	14.298	128	1709600	50.602
152) 1,2,3-Trichlorobenzene	(3)	14.452	180	535463	49.675
153) 2-Methylnaphthalene	(3)	15.024	142	1129383	59.145
54) \$Dibromofluoromethane	(1)	6.337	113	294907	50.145
55) \$Dibromofluoromethane (mz111)	(1)	6.337	111	300328	49.838
64) \$1,2-Dichloroethane-d4	(1)	6.803	102	67055	50.179
65) \$1,2-Dichloroethane-d4 (mz65)	(1)	6.797	65	341986	49.799
66) \$1,2-Dichloroethane-d4 (mz104)	(1)	6.800	104	42733	49.755
90) \$Toluene-d8	(2)	9.343	98	1129497	49.095
89) \$Toluene-d8 (mz100)	(2)	9.343	100	722033	48.676
119) \$4-Bromofluorobenzene	(2)	11.857	95	425675	48.054
118) \$4-Bromofluorobenzene (mz174)	(2)	11.857	174	360449	48.279

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04i03.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 13:02 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 13:21
Date, time and analyst ID of latest file update: 04-Mar-2010 13:36 cbs01947

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compound Number : 21
Compound Name : 2-Propanol
Scan Number : 561
Retention Time (minutes): 3.385
Quant Ion : 45
Area (flag) : 215905 M
Concentration (ug/L) : 251.9649
Integration start scan : 528 Integration stop scan: 623
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____

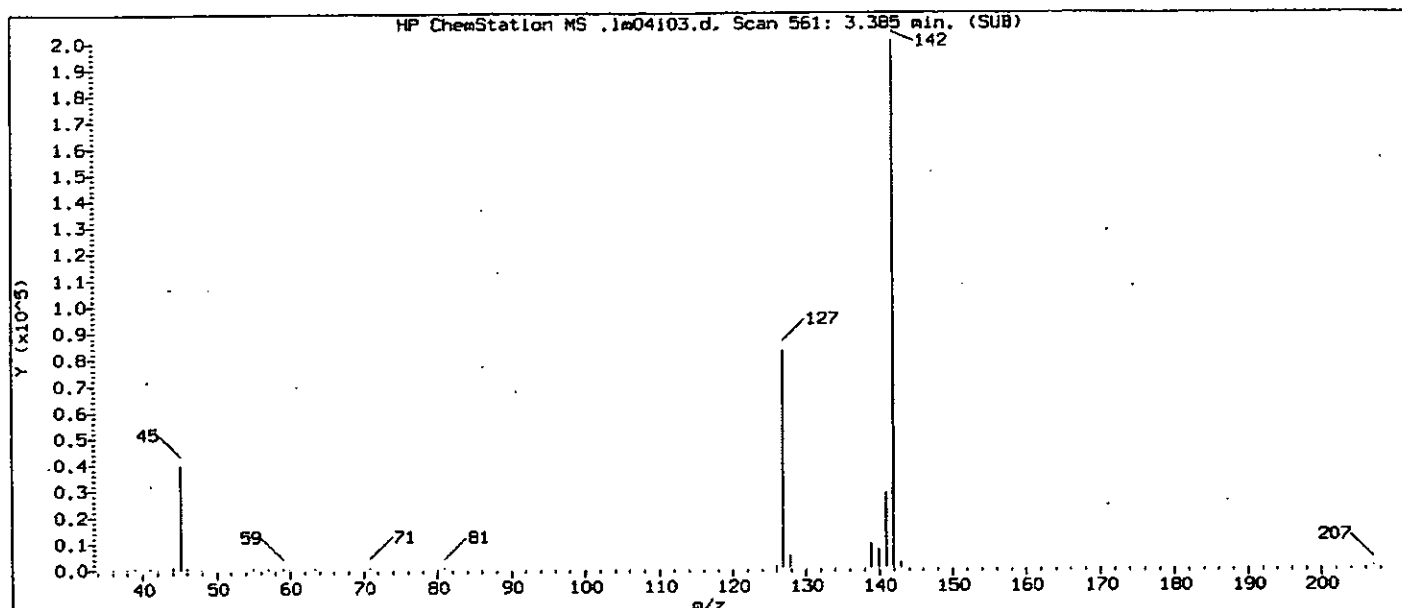
GC/MS audit/management approval: _____

OBQUA BULLIO

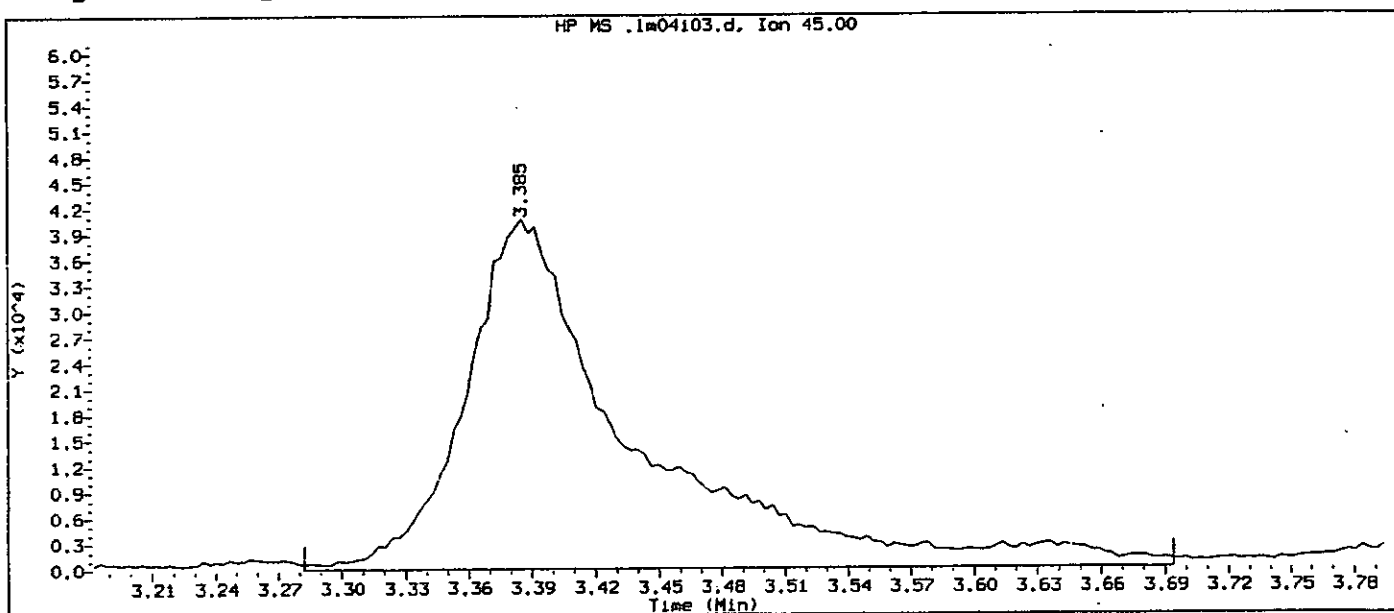
Jan 18 3/8/10

PTL05 0288

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04103.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 13:02 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 13:21
Date, time and analyst ID of latest file update: 04-Mar-2010 13:21 Automation

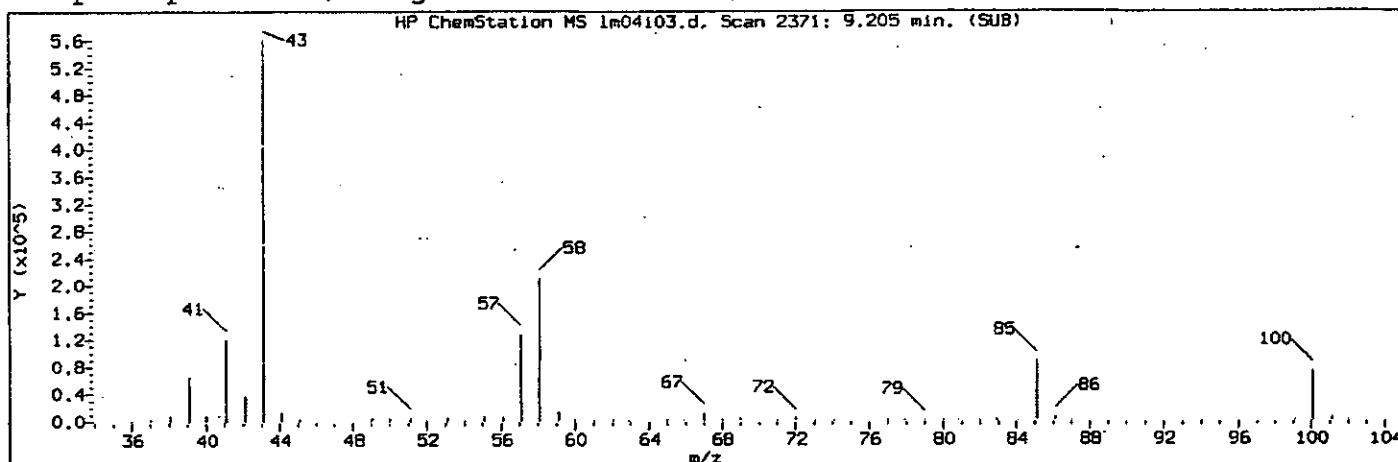
Sample Name: VSTD050

Lab Sample ID: VSTD050

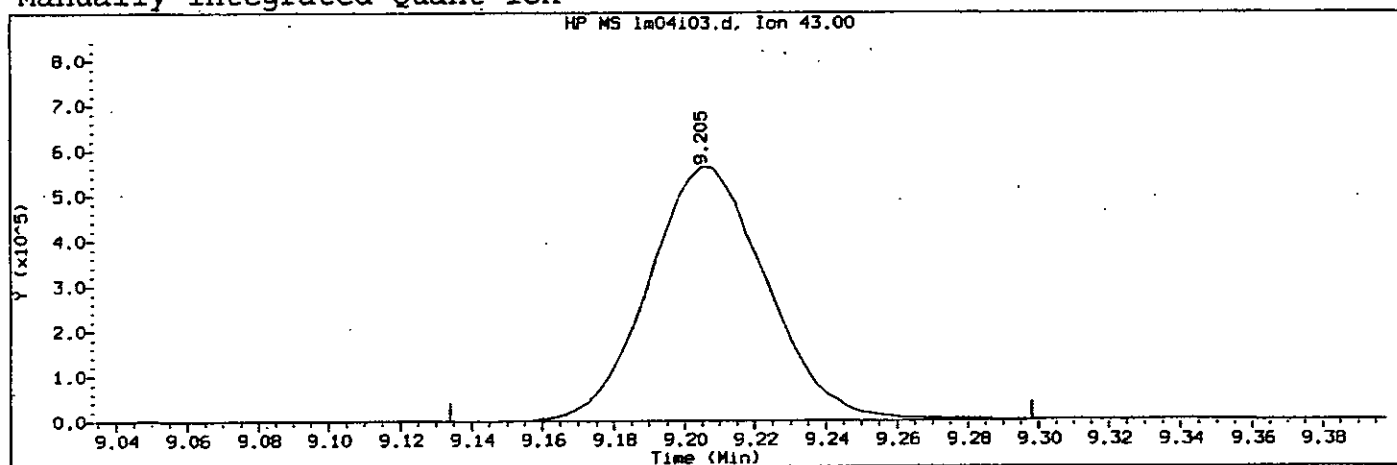
Compound Number : 21
Compound Name : 2-Propanol
Scan Number : 561
Retention Time (minutes): 3.385
Quant Ion : 45
Area : 228397
Concentration (ug/L) : 261.4608
Integration start scan : 528 Integration stop scan: 656
Y at integration start : 0 Y at integration end: 0

PTL05 8289

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04i03.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 13:02 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 13:21
Date, time and analyst ID of latest file update: 04-Mar-2010 13:36 cbs01947
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 88
Compound Name : 4-Methyl-2-Pentanone
Scan Number : 2371
Retention Time (minutes): 9.205
Quant Ion : 43
Area (flag) : 1313483 M
Concentration (ug/L) : 107.5092
Integration start scan : 2348 Integration stop scan: 2399
Y at integration start : 0 Y at integration end: 0

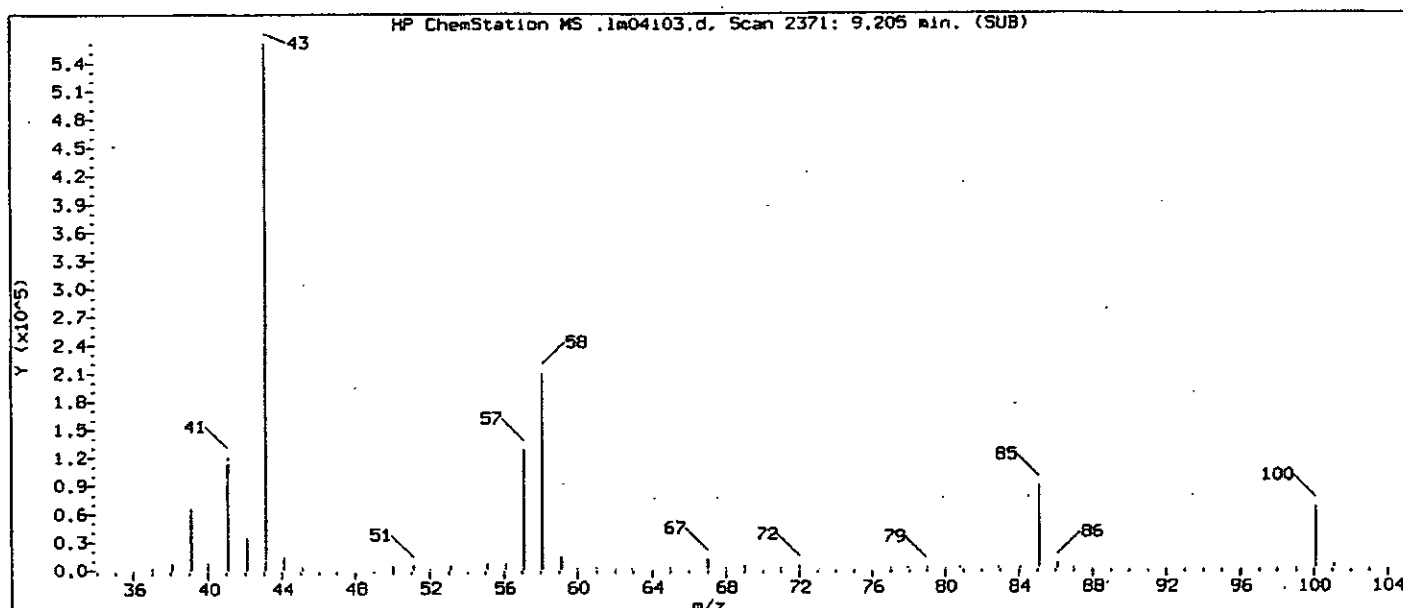
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: OBERQUI 3/4/10

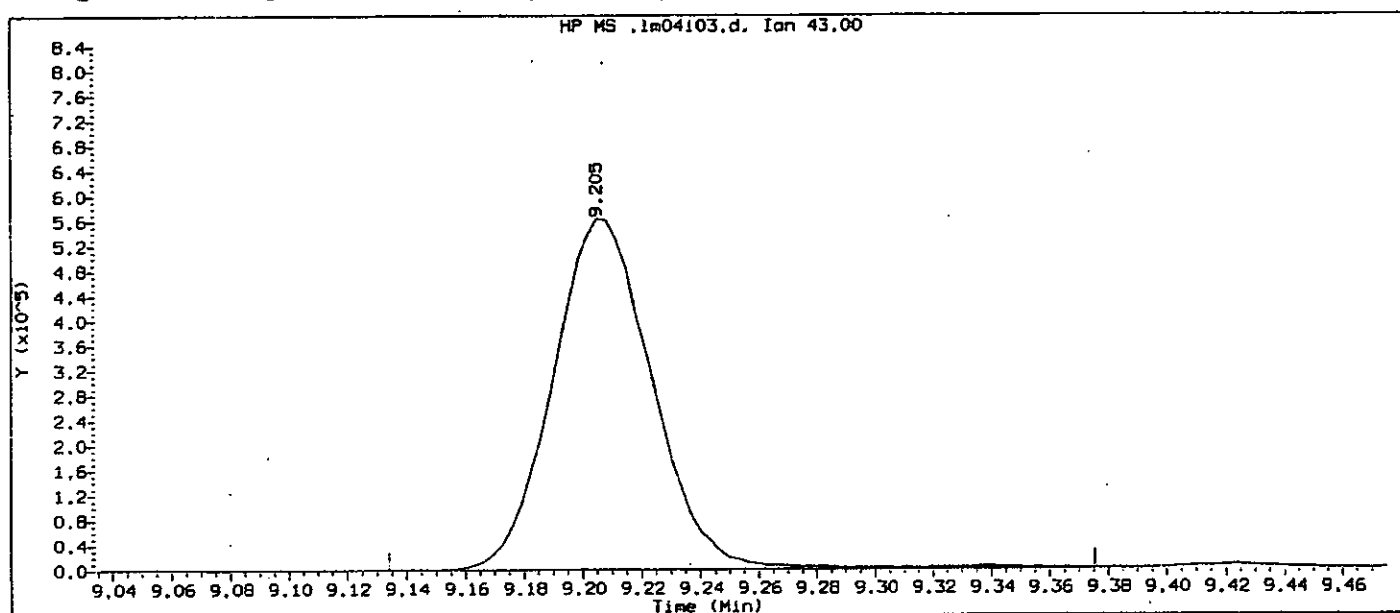
GC/MS audit/management approval: Panther 3/8/10

PTL05 0210

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04103.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 13:02 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 13:21
Date, time and analyst ID of latest file update: 04-Mar-2010 13:21 Automation

Sample Name: VSTD050

Lab Sample ID: VSTD050

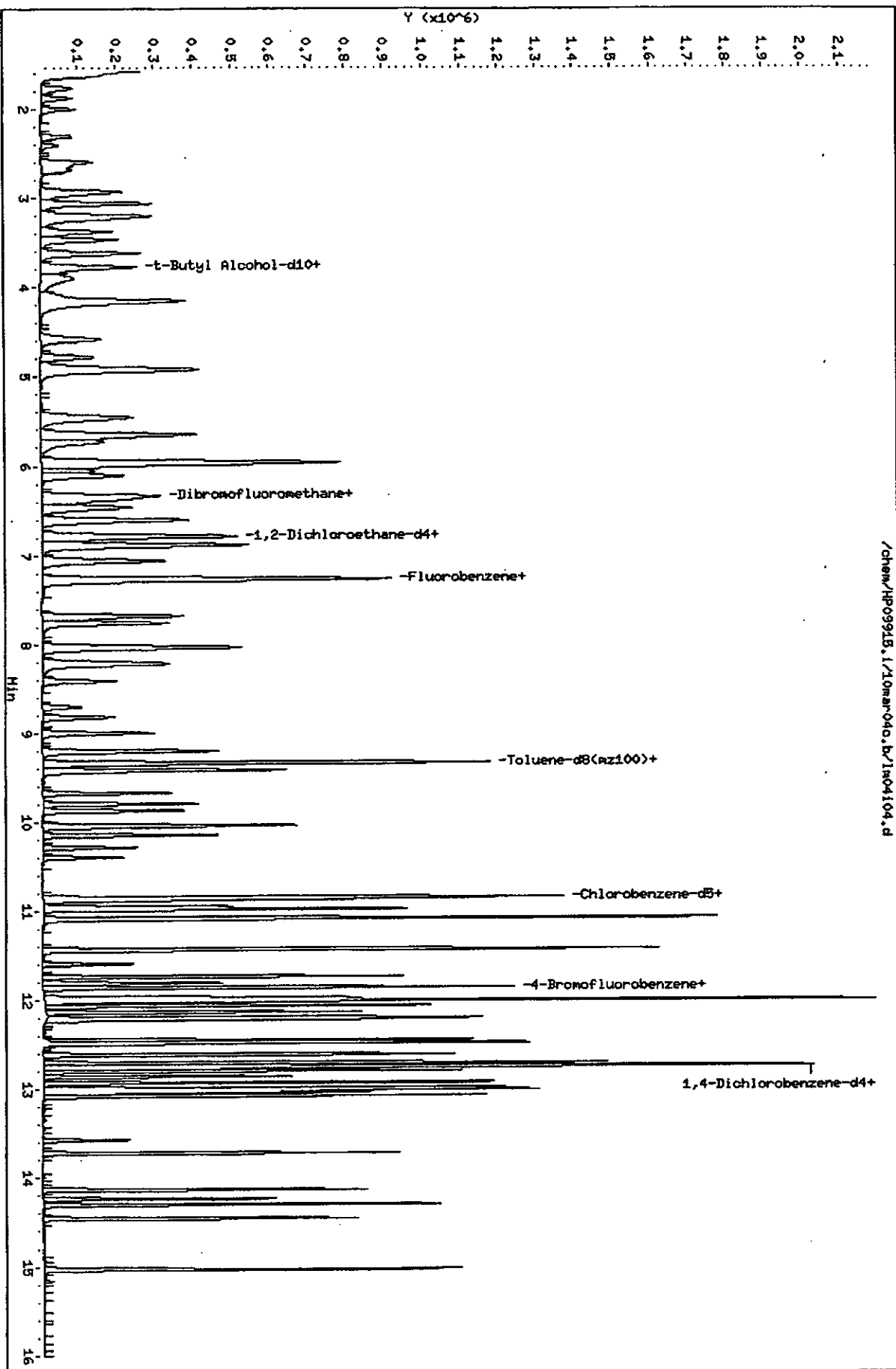
Compound Number : 88
Compound Name : 4-Methyl-2-Pentanone
Scan Number : 2371
Retention Time (minutes): 9.205
Quant Ion : 43
Area : 1324866
Concentration (ug/L) : 108.1051
Integration start scan : 2348 Integration stop scan: 2423
Y at integration start : 0 Y at integration end: 0

PTL05 8211

Data File: /chem/HP09915.1/10mar04o.b/1m04104.d
Date: 04-Mar-2010 13:24
Client ID: VSTD020
Sample Info: VSTD020|VSTD020|111111
Purge Volume: 8.0
Column phase: DB-624

Instrument: HP09915.1
Operator: CBE01947
Column diameter: 0.25

/chem/HP09915.1/10mar04o.b/1m04104.d



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Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i04.d
Injection date and time: 04-MAR-2010 13:24

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 14:11 cbs01947

Sample Name: VSTD020

Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)	1.762	85	187665	21.488
3) Chloromethane	(1)	1.877	50	117453M	21.355
4) Vinyl Chloride	(1)	1.999	62	110744	21.411
7) Bromomethane	(1)	2.308	94	78995	22.530
9) Chloroethane	(1)	2.405	64	61206	23.182
10) Dichlorofluoromethane	(1)	2.598	67	201703	23.660
11) Trichlorofluoromethane	(1)	2.684	101	200210	21.261
13) Ethyl Ether	(1)	2.929	59	93882	22.979
12) Freon 123a	(1)	2.948	67	140598	24.312
16) Acrolein	(4)	3.064	56	411088	215.723
17) 1,1-Dichloroethene	(1)	3.196	96	112938	22.274
18) Freon 113	(1)	3.228	101	110485	21.190
20) Acetone	(1)	3.224	43	118053	42.095
21) 2-Propanol	(4)	3.379	45	160735	216.431
23) Methyl Iodide	(1)	3.372	142	240311	22.543
24) Carbon Disulfide	(1)	3.466	76	405246	22.503
28) Allyl Chloride	(1)	3.617	41	213150	21.490
26) Methyl Acetate	(1)	3.626	43	160208	21.874
29) Methylene Chloride	(1)	3.774	84	142711	22.775
30)*t-Butyl Alcohol-d10	(4)	3.797	65	219335	250.000
31) t-Butyl Alcohol	(4)	3.906	59	256620	218.853
32) Acrylonitrile	(1)	4.080	53	79430	21.567
33) trans-1,2-Dichloroethene	(1)	4.151	96	137299	22.889
34) Methyl Tertiary Butyl Ether	(1)	4.163	73	447720	22.150
35) n-Hexane	(1)	4.581	57	166482	20.947
43) 1,2-Dichloroethene (total)	(1)		96	282387	45.569
37) 1,1-Dichloroethane	(1)	4.774	63	248598M	22.548
40) di-Isopropyl Ether	(1)	4.909	45	496191	22.554
41) 2-Chloro-1,3-Butadiene	(1)	4.929	53	206267	22.127
42) Ethyl t-Butyl Ether	(1)	5.459	59	442984	22.267
44) cis-1,2-Dichloroethene	(1)	5.646	96	145088	22.680
47) 2-Butanone	(1)	5.655	43	211443	42.707
45) 2,2-Dichloropropane	(1)	5.658	77	184680	21.740
48) Propionitrile	(4)	5.732	54	334163	225.712

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL85 8213

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i04.d
 Injection date and time: 04-MAR-2010 13:24

Instrument ID: HP09915.i
 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
 Calibration date and time: 04-MAR-2010 12:18
 Date, time and analyst ID of latest file update: 04-Mar-2010 14:11 cbs01947

Sample Name: VSTD020

Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
49) Methacrylonitrile	(1)	5.964	67	428205	109.787
50) Bromochloromethane	(1)	5.986	128	69909	21.651
51) Tetrahydrofuran	(4)	6.054	71	52624	44.406
53) Chloroform	(1)	6.109	83	240552	22.493
56) 1,1,1-Trichloroethane	(1)	6.379	97	224576	23.104
57) Cyclohexane	(1)	6.459	56	216841	21.507
59) Cyclohexane (mz 84)	(1)	6.462	84	173948	21.404
58) Cyclohexane (mz 69)	(1)	6.459	69	62228	21.325
60) 1,1-Dichloropropene	(1)	6.604	75	187121	22.490
61) Carbon Tetrachloride	(1)	6.610	117	164078	20.971
63) Isobutyl Alcohol	(4)	6.777	41	227680	552.736
67) Benzene	(1)	6.884	78	558951	22.875
68) 1,2-Dichloroethane	(1)	6.896	62	195923	22.058
69) 1,2-Dichloroethane (mz 98)	(1)	6.900	98	16882	22.480
71) t-Amyl Methyl Ether	(1)	7.060	73	423381	21.977
72)*Fluorobenzene	(1)	7.266	96	1035582	50.000
73) n-Heptane	(1)	7.285	43	178209	20.776
75) n-Butanol	(4)	7.681	56	386170	1088.175
76) Trichloroethene	(1)	7.761	95	139286	22.084
77) Methylcyclohexane	(1)	8.028	83	221131	21.648
78) Methylcyclohexane (mz98)	(1)	8.025	98	98684	21.580
79) 1,2-Dichloropropane	(1)	8.044	63	158076	23.039
80) Dibromomethane	(1)	8.199	93	98435	21.955
82) Methyl Methacrylate	(1)	8.221	69	139020	21.708
83) 1,4-Dioxane	(4)	8.221	88	62746	563.143
84) Bromodichloromethane	(1)	8.411	83	168567	21.486
85) 2-Nitropropane	(1)	8.703	41	85621	37.530
86) 2-Chloroethyl Vinyl Ether	(1)	8.822	63	114433	20.862
87) cis-1,3-Dichloropropene	(1)	8.999	75	227605	21.688
88) 4-Methyl-2-Pentanone	(1)	9.202	43	442596	41.163
93) Toluene	(2)	9.420	92	335293	22.506
94) trans-1,3-Dichloropropene	(2)	9.671	75	214078	21.140
95) Ethyl Methacrylate	(2)	9.793	69	236935	21.800
96) 1,1,2-Trichloroethane	(2)	9.871	97	133448	22.332

* = Compound is an internal standard.

PTL05 0214

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i04.d
Injection date and time: 04-MAR-2010 13:24

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 14:11 cbs01947

Sample Name: VSTD020

Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
97) Tetrachloroethene	(2)	10.035	166	140052	22.100
98) 1,3-Dichloropropane	(2)	10.051	76	237720	22.618
100) 2-Hexanone	(2)	10.144	43	338161	41.081
101) Dibromochloromethane	(2)	10.282	129	138506	20.717
103) 1,2-Dibromoethane	(2)	10.395	107	148837	21.774
104) *Chlorobenzene-d5	(2)	10.845	117	753004	50.000
105) Chlorobenzene	(2)	10.874	112	384109	22.456
106) 1,1,1,2-Tetrachloroethane	(2)	10.948	131	129268	21.282
107) Ethylbenzene	(2)	10.977	91	645351	22.573
108) m+p-Xylene	(2)	11.079	106	510733	47.264
112) Xylene (Total)	(2)		106	754450	70.341
110) o-Xylene	(2)	11.427	106	243717	23.077
111) Styrene	(2)	11.436	104	402308	22.567
113) Bromoform	(2)	11.591	173	102595	19.243
114) Isopropylbenzene	(2)	11.735	105	570095	21.546
117) Cyclohexanone	(4)	11.806	55	210448	523.744
121) 1,1,2,2-Tetrachloroethane	(3)	11.967	83	217073	22.618
122) Bromobenzene	(3)	11.983	156	160739	22.556
123) 1,2,3-Trichloropropane	(3)	11.999	110	60860	22.196
124) trans-1,4-Dichloro-2-Butene	(3)	12.009	53	311034	106.792
125) n-Propylbenzene	(3)	12.063	120	171099	22.327
127) 2-Chlorotoluene	(3)	12.134	126	146170	22.304
128) 1,3,5-Trimethylbenzene	(3)	12.195	120	252030	22.549
129) 4-Chlorotoluene	(3)	12.214	126	156941	22.687
131) tert-Butylbenzene	(3)	12.449	134	118334	23.020
132) Pentachloroethane	(3)	12.465	167	94482	20.542
133) 1,2,4-Trimethylbenzene	(3)	12.481	105	547021	22.969
134) sec-Butylbenzene	(3)	12.610	134	132157	22.224
135) 1,3-Dichlorobenzene	(3)	12.700	146	308272	22.407
136) p-Isopropyltoluene	(3)	12.713	134	159623	22.866
138) *1,4-Dichlorobenzene-d4	(3)	12.742	152	428966	50.000
139) 1,4-Dichlorobenzene	(3)	12.761	146	323005	22.208
137) 1,2,3-Trimethylbenzene	(3)	12.793	120	235402	21.648
140) Benzyl Chloride	(3)	12.854	91	386403	19.622

* = Compound is an internal standard.

PTL05 0215

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i04.d
Injection date and time: 04-MAR-2010 13:24

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 14:11 cbs01947

Sample Name: VSTD020

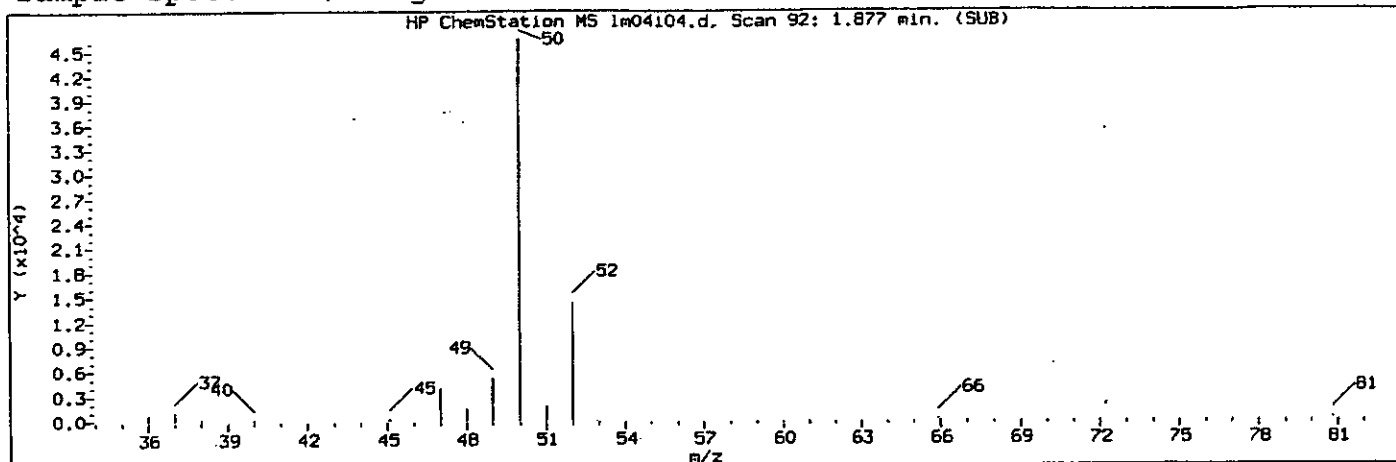
Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
141) 1,3-Diethylbenzene	(3)	12.928	119	336160	21.499
142) 1,4-Diethylbenzene	(3)	12.989	119	336269	21.816
144) n-Butylbenzene	(3)	13.005	92	290515	22.656
145) 1,2-Dichlorobenzene	(3)	13.034	146	303261	22.165
143) 1,2-Diethylbenzene	(3)	13.073	119	276005	21.683
146) 1,2-Dibromo-3-Chloropropane	(3)	13.568	75	46198	21.073
147) 1,3,5-Trichlorobenzene	(3)	13.716	180	251759	22.227
148) 1,2,4-Trichlorobenzene	(3)	14.124	180	229717	22.279
149) Hexachlorobutadiene	(3)	14.230	225	97762	21.307
150) Naphthalene	(3)	14.295	128	687220	22.749
152) 1,2,3-Trichlorobenzene	(3)	14.452	180	218272	22.676
153) 2-Methylnaphthalene	(3)	15.028	142	478542	26.293
54) \$Dibromofluoromethane	(1)	6.334	113	254999	49.812
55) \$Dibromofluoromethane (mz111)	(1)	6.334	111	259699	49.584
64) \$1,2-Dichloroethane-d4	(1)	6.793	102	58210	49.985
65) \$1,2-Dichloroethane-d4 (mz65)	(1)	6.793	65	296972M	49.713
66) \$1,2-Dichloroethane-d4 (mz104)	(1)	6.790	104	37104	49.676
90) \$Toluene-d8	(2)	9.340	98	1007067	50.696
89) \$Toluene-d8 (mz100)	(2)	9.340	100	649417	50.702
119) \$4-Bromofluorobenzene	(2)	11.858	95	355744	47.504
118) \$4-Bromofluorobenzene (mz174)	(2)	11.858	174	304297	48.042

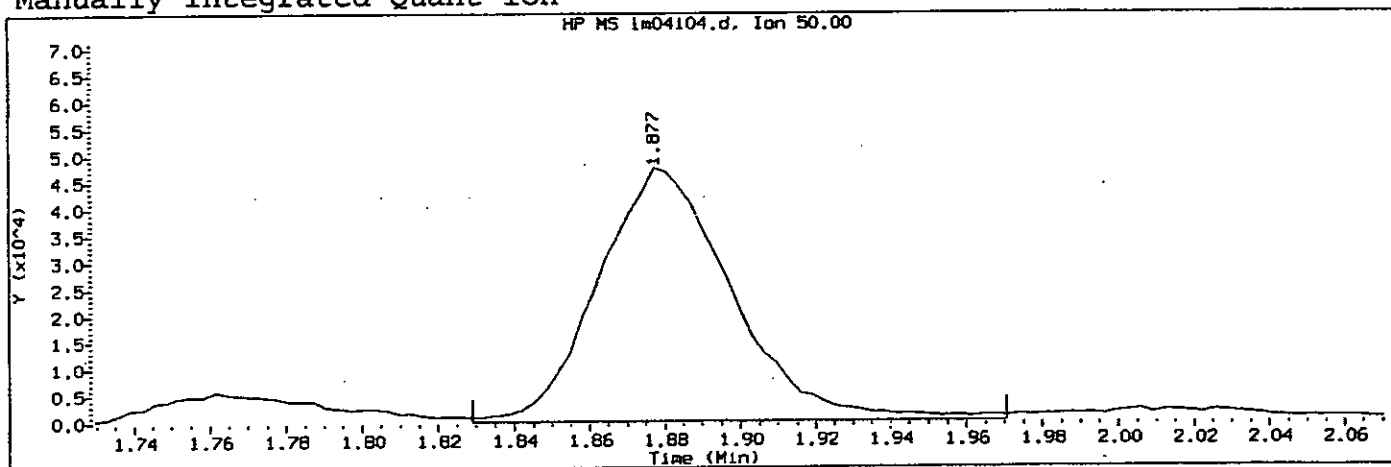
M = Compound was manually integrated.

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04i04.d Instrument ID: HP09915.i
 Injection date and time: 04-MAR-2010 13:24 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
 Calibration date and time: 04-MAR-2010 14:11
 Date, time and analyst ID of latest file update: 04-Mar-2010 14:11 cbs01947

Sample Name: VSTD020

Lab Sample ID: VSTD020

Compound Number : 3
 Compound Name : Chloromethane
 Scan Number : 92
 Retention Time (minutes): 1.877
 Quant Ion : 50
 Area (flag) : 117453 M
 Concentration (ug/L) : 21.3555
 Integration start scan : 76 Integration stop scan: 120
 Y at integration start : 0 Y at integration end: 0

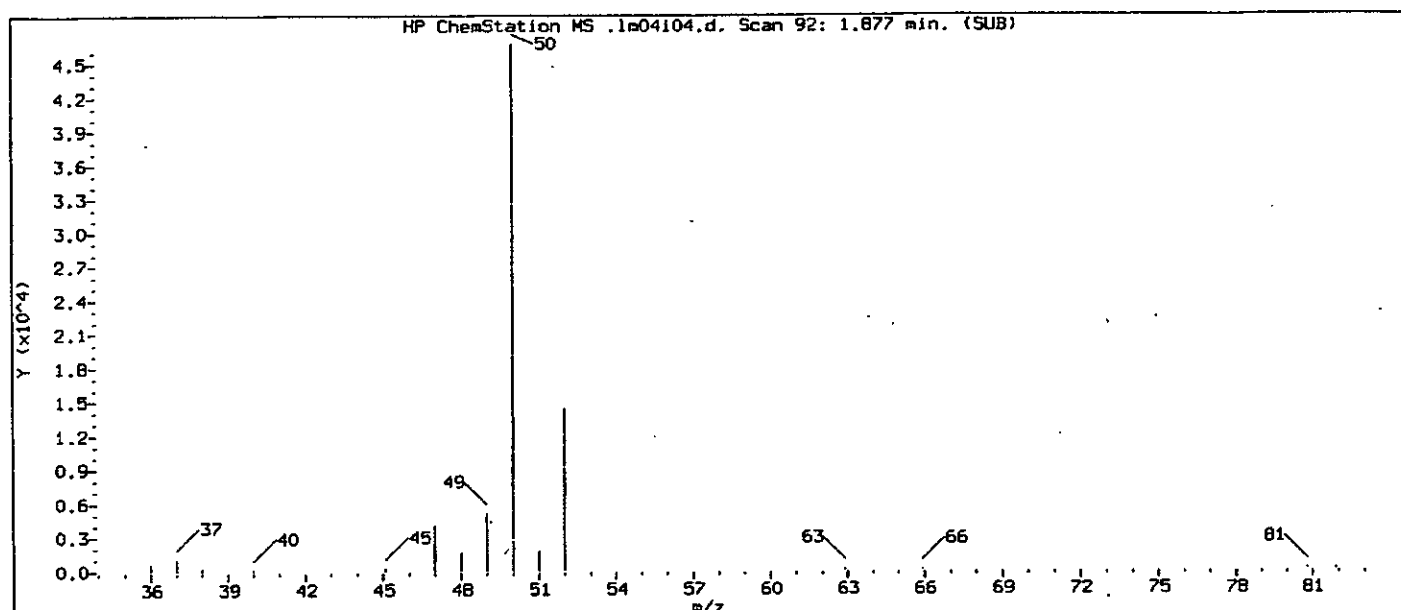
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: CBE01947 3/4/10

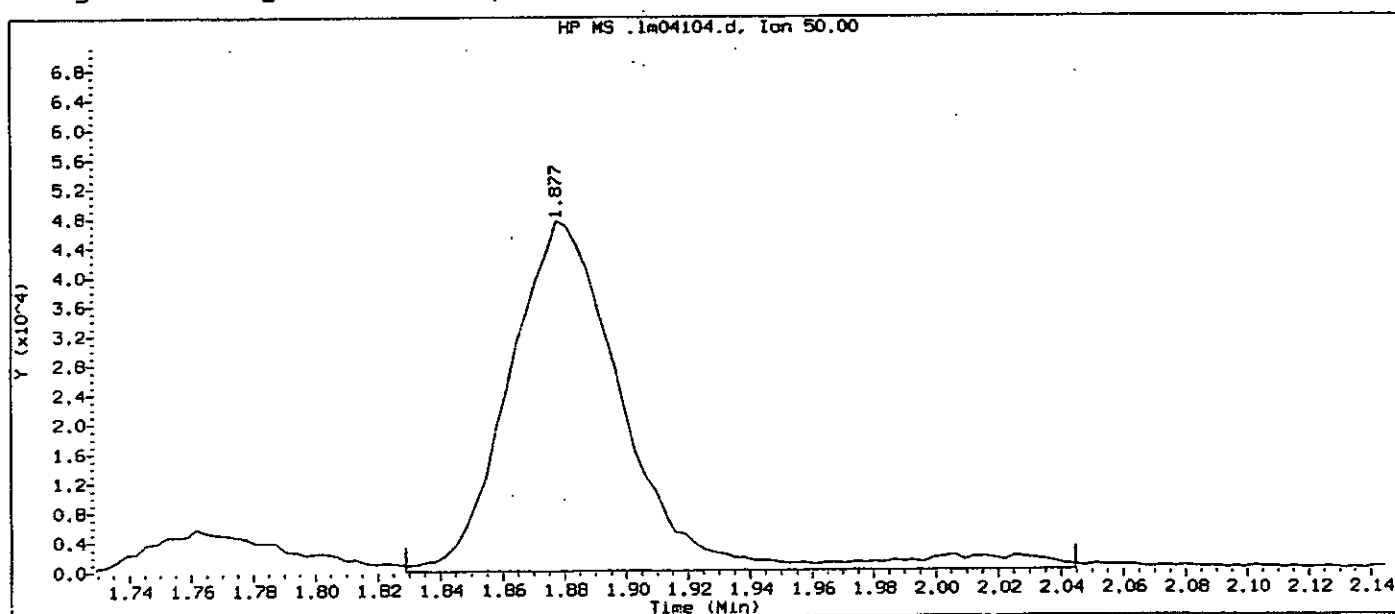
GC/MS audit/management approval: Paul 3/8/10

PTL85 8217

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04104.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 13:24 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 13:43
Date, time and analyst ID of latest file update: 04-Mar-2010 13:43 Automation

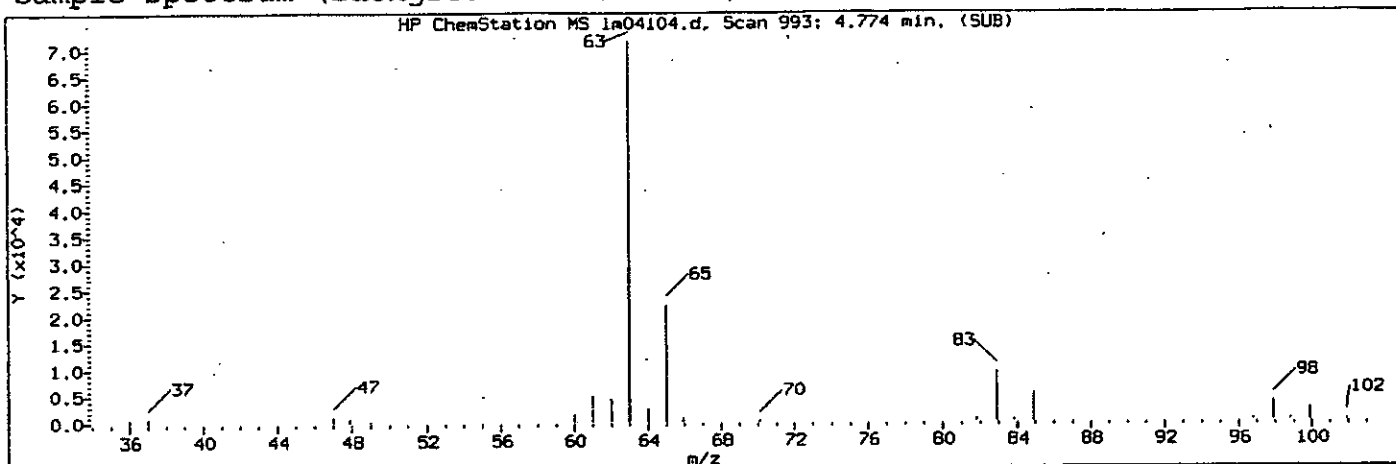
Sample Name: VSTD020

Lab Sample ID: VSTD020

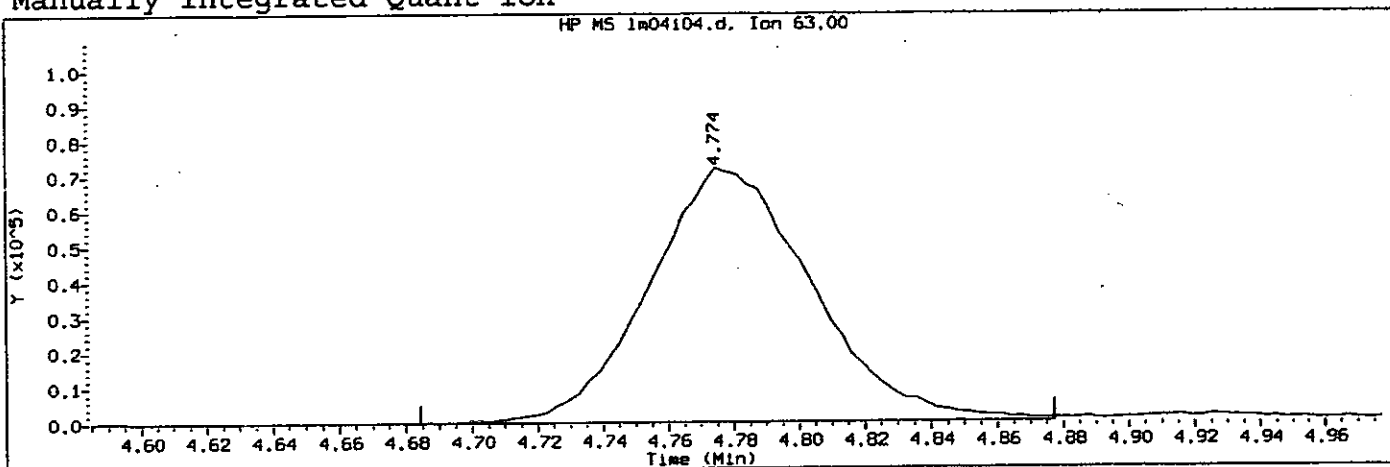
Compound Number : 3
Compound Name : Chloromethane
Scan Number : 92
Retention Time (minutes): 1.877
Quant Ion : 50
Area : 123493
Concentration (ug/L) : 22.1497
Integration start scan : 76 Integration stop scan: 143
Y at integration start : 0 Y at integration end: 0

PTL05 0218

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04104.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 13:24 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 14:11
Date, time and analyst ID of latest file update: 04-Mar-2010 14:11 cbs01947

Sample Name: VSTD020

Lab Sample ID: VSTD020

Compound Number : 37
Compound Name : 1,1-Dichloroethane
Scan Number : 993
Retention Time (minutes): 4.774
Quant Ion : 63
Area (flag) : 248598 M
Concentration (ug/L) : 22.5483
Integration start scan : 964 Integration stop scan: 1024
Y at integration start : 0 Y at integration end: 0

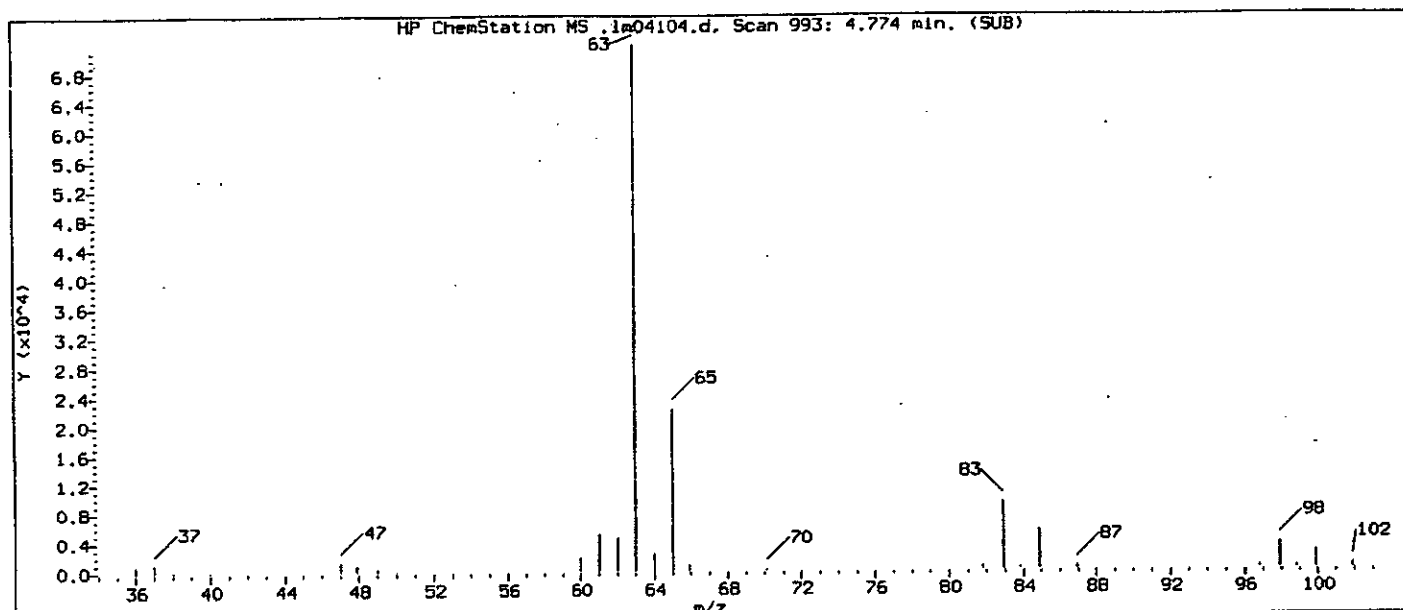
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: CBE01947 3/8/10

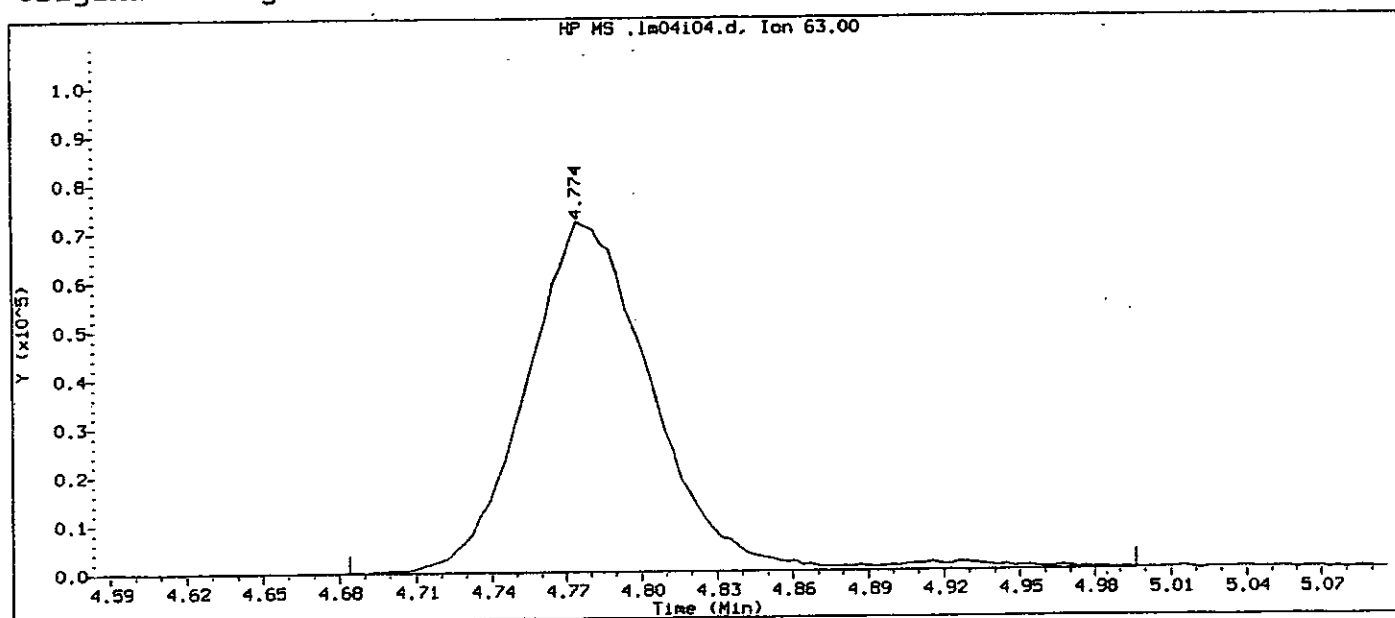
GC/MS audit/management approval: Paulos 3/8/10

PTL05 0219

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04104.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 13:24 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 13:43
Date, time and analyst ID of latest file update: 04-Mar-2010 13:43 Automation

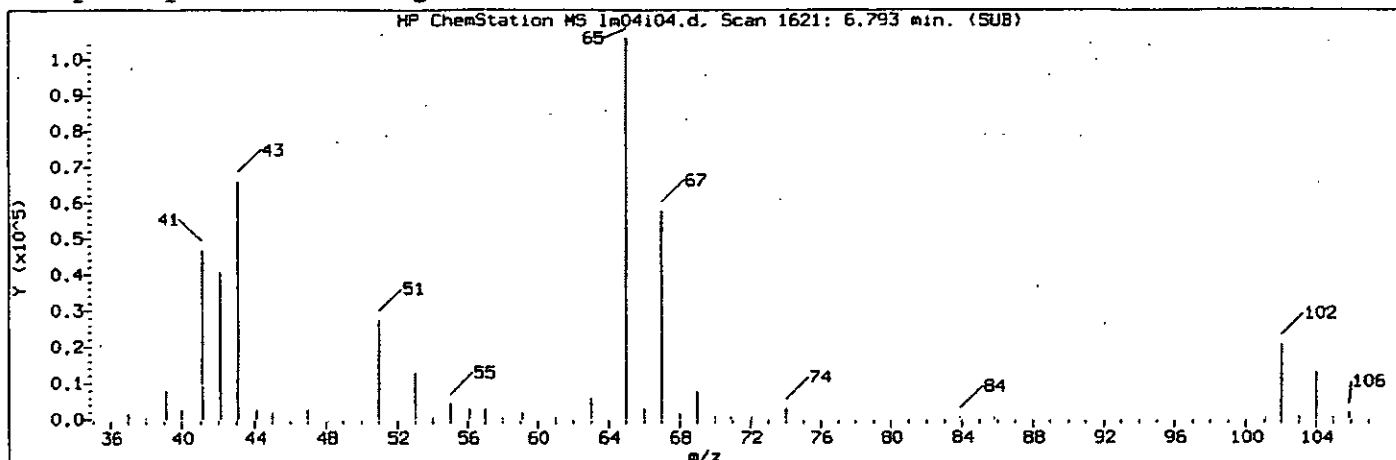
Sample Name: VSTD020

Lab Sample ID: VSTD020

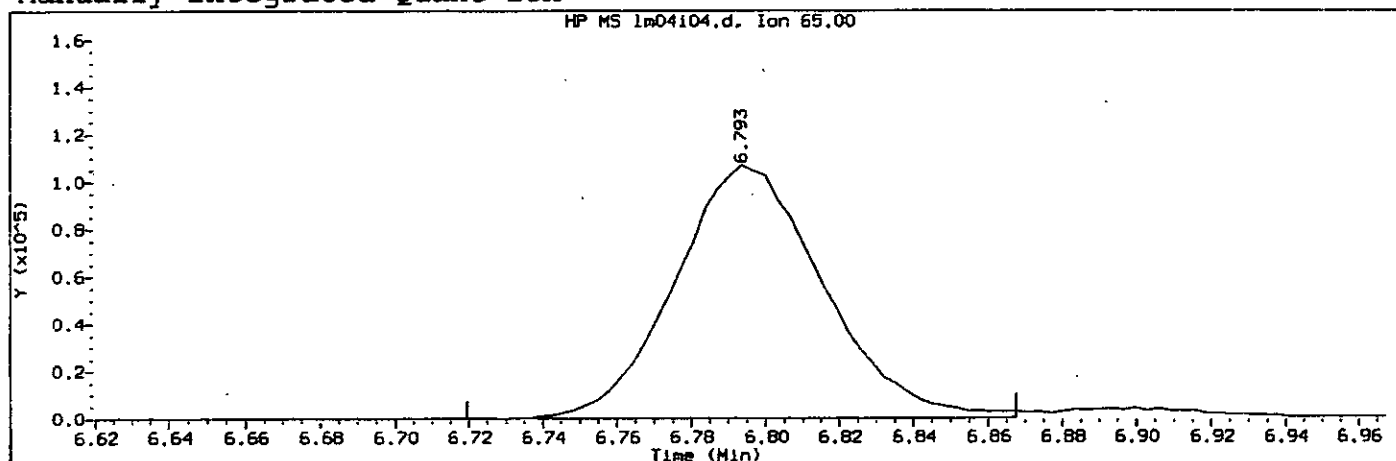
Compound Number : 37
Compound Name : 1,1-Dichloroethane
Scan Number : 993
Retention Time (minutes): 4.774
Quant Ion : 63
Area : 254982
Concentration (ug/L) : 22.9612
Integration start scan : 964 Integration stop scan: 1061
Y at integration start : 0 Y at integration end: 0

PTL05 0220

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04i04.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 13:24 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 14:11
Date, time and analyst ID of latest file update: 04-Mar-2010 14:11 cbs01947

Sample Name: VSTD020

Lab Sample ID: VSTD020

Compound Number : 65
Compound Name : 1,2-Dichloroethane-d4 (mz65)
Scan Number : 1621
Retention Time (minutes): 6.793
Quant Ion : 65
Area (flag) : 296972 M
Concentration (ug/L) : 49.7126
Integration start scan : 1597 Integration stop scan: 1643
Y at integration start : 0 Y at integration end: 0

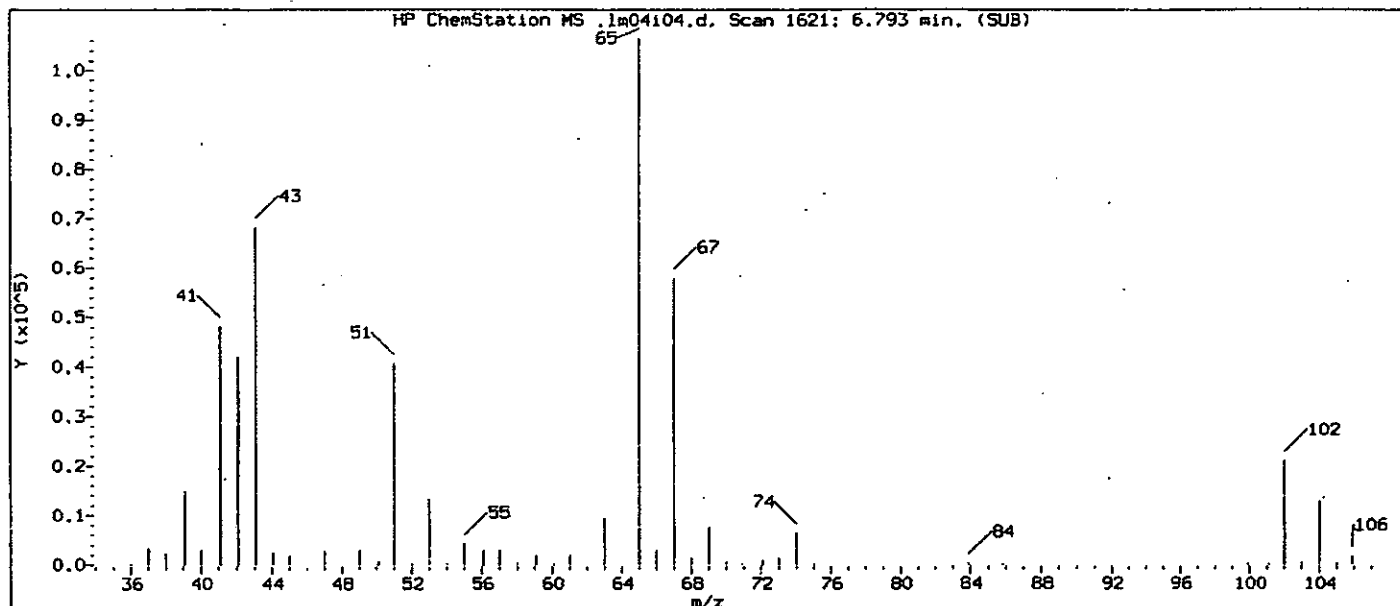
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: CBE01947 3/4/10

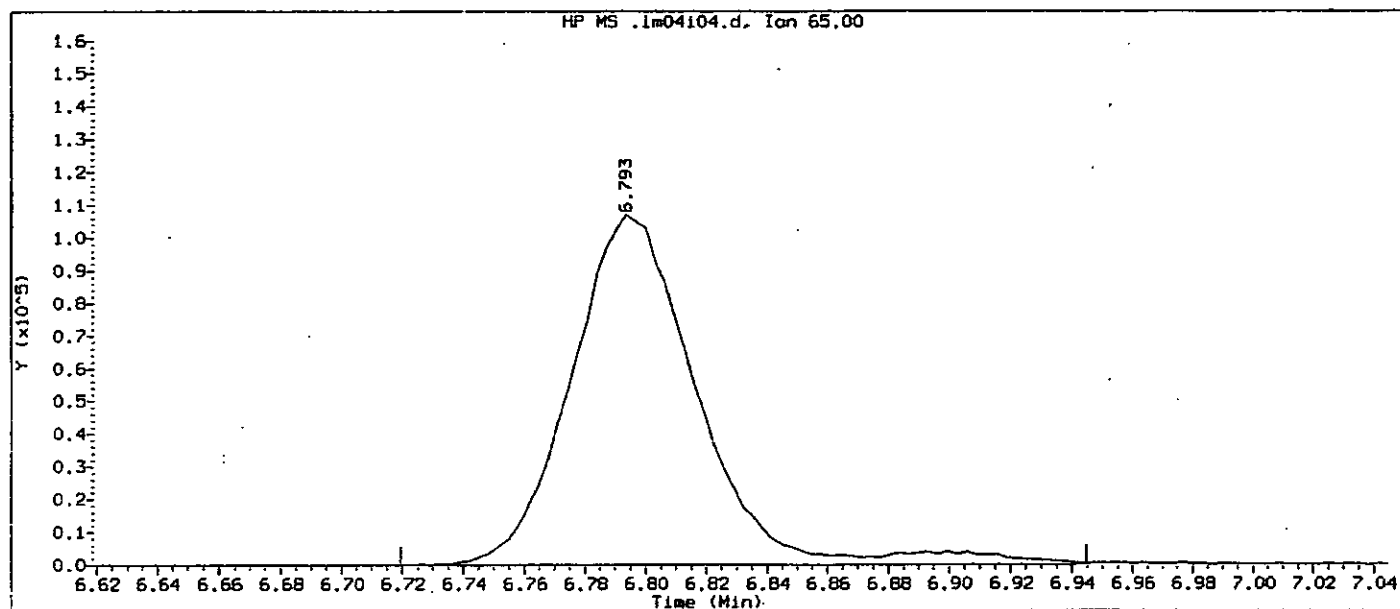
GC/MS audit/management approval: [Signature] 3/8/10

PTL05 0221

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04i04.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 13:24 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 13:43
Date, time and analyst ID of latest file update: 04-Mar-2010 13:43 Automation

Sample Name: VSTD020

Lab Sample ID: VSTD020

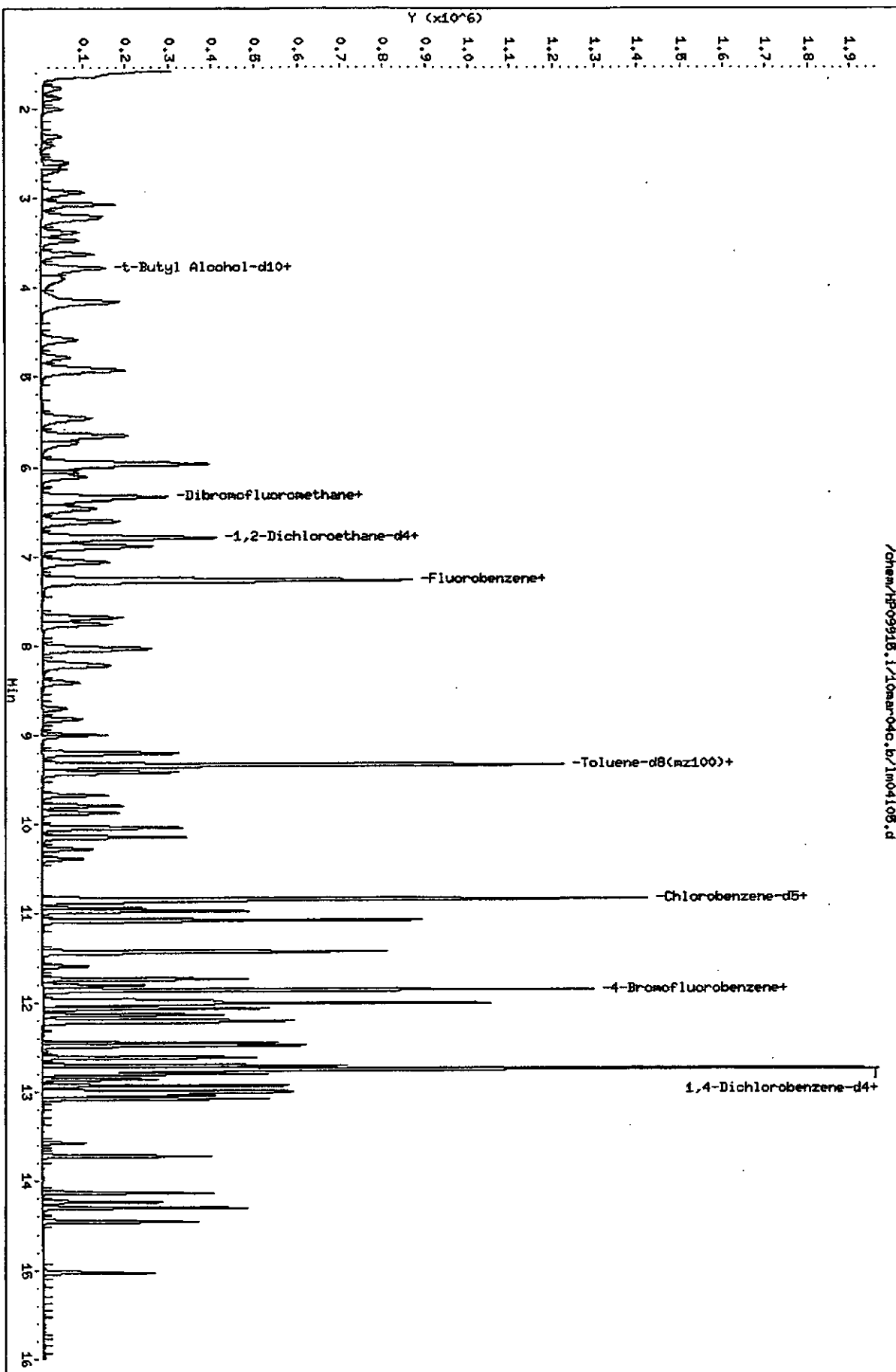
Compound Number : 65
Compound Name : 1,2-Dichloroethane-d4(mz65)
Scan Number : 1621
Retention Time (minutes): 6.793
Quant Ion : 65
Area : 308374
Concentration (ug/L) : 51.1334
Integration start scan : 1597 Integration stop scan: 1667
Y at integration start : 0 Y at integration end: 0

PTL05 0222

Data File: /chem/HP09915.i/10mar04c.b/1m04105.d
Date: 04-MAR-2010 14:08
Client ID: VSTD010
Sample Info: VSTD010/VSTD01011111
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.1
Operator: CBE01947
Column diameter: 0.25

/chem/HP09915.i/10mar04c.b/1m04105.d



06/19/07
211110

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i05.d
Injection date and time: 04-MAR-2010 14:08

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 14:28 cbs01947

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)	1.771	85	104405	11.215
3) Chloromethane	(1)	1.880	50	65738	11.213
4) Vinyl Chloride	(1)	2.002	62	60872	11.079
7) Bromomethane	(1)	2.311	94	43311	11.395
9) Chloroethane	(1)	2.414	64	35011	12.142
10) Dichlorofluoromethane	(1)	2.601	67	92840	10.424
11) Trichlorofluoromethane	(1)	2.681	101	108612	10.906
13) Ethyl Ether	(1)	2.929	59	44713	10.465
12) Freon 123a	(1)	2.941	67	59745	9.996
16) Acrolein	(4)	3.067	56	238654	113.968
17) 1,1-Dichloroethene	(1)	3.205	96	52941	10.081
18) Freon 113	(1)	3.237	101	56429	10.373
20) Acetone	(1)	3.237	43	65727	22.084
21) 2-Propanol	(4)	3.382	45	81206	103.462
23) Methyl Iodide	(1)	3.379	142	110397	10.015
24) Carbon Disulfide	(1)	3.472	76	177798	9.638
28) Allyl Chloride	(1)	3.623	41	101475	9.918
26) Methyl Acetate	(1)	3.636	43	77369	10.175
29) Methylene Chloride	(1)	3.774	84	68542	10.461
30) *t-Butyl Alcohol-d10	(4)	3.793	65	229799	250.000
31) t-Butyl Alcohol	(4)	3.906	59	130054	104.636
32) Acrylonitrile	(1)	4.096	53	42394	10.889
33) trans-1,2-Dichloroethene	(1)	4.157	96	65035	10.387
34) Methyl Tertiary Butyl Ether	(1)	4.163	73	215860	10.264
35) n-Hexane	(1)	4.581	57	87484	10.513
43) 1,2-Dichloroethene (total)	(1)		96	133988	20.727
37) 1,1-Dichloroethane	(1)	4.784	63	118184	10.294
40) di-Isopropyl Ether	(1)	4.912	45	238748	10.395
41) 2-Chloro-1,3-Butadiene	(1)	4.932	53	98329	10.163
42) Ethyl t-Butyl Ether	(1)	5.462	59	212810M	10.277
44) cis-1,2-Dichloroethene	(1)	5.645	96	68953	10.340
47) 2-Butanone	(1)	5.662	43	127424	23.737
45) 2,2-Dichloropropane	(1)	5.662	77	85754	9.812
48) Propionitrile	(4)	5.739	54	166634	105.856

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL05 0224

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i05.d
 Injection date and time: 04-MAR-2010 14:08

Instrument ID: HP09915.i
 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
 Calibration date and time: 04-MAR-2010 12:18
 Date, time and analyst ID of latest file update: 04-Mar-2010 14:28 cbs01947

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
49) Methacrylonitrile	(1)	5.967	67	213479	52.335
50) Bromochloromethane	(1)	5.980	128	33682	10.073
51) Tetrahydrofuran	(4)	6.051	71	30375	23.419
53) Chloroform	(1)	6.118	83	113724	10.229
56) 1,1,1-Trichloroethane	(1)	6.379	97	107883	10.582
57) Cyclohexane	(1)	6.465	56	111616	10.560
59) Cyclohexane (mz 84)	(1)	6.465	84	88923	10.463
58) Cyclohexane (mz 69)	(1)	6.472	69	31818	10.434
60) 1,1-Dichloropropene	(1)	6.610	75	89490	10.322
61) Carbon Tetrachloride	(1)	6.613	117	77483	9.662
63) Isobutyl Alcohol	(4)	6.787	41	114525	262.147
67) Benzene	(1)	6.890	78	268617	10.502
68) 1,2-Dichloroethane	(1)	6.903	62	94486	10.232
69) 1,2-Dichloroethane (mz 98)	(1)	6.899	98	8364	10.611
71) t-Amyl Methyl Ether	(1)	7.063	73	202036	10.117
72)*Fluorobenzene	(1)	7.269	96	1070402	50.000
73) n-Heptane	(1)	7.292	43	91845	10.285
75) n-Butanol	(4)	7.684	56	191131	511.183
76) Trichloroethene	(1)	7.758	95	68153	10.360
77) Methylcyclohexane	(1)	8.028	83	109551	10.299
78) Methylcyclohexane (mz98)	(1)	8.031	98	49729	10.412
79) 1,2-Dichloropropane	(1)	8.050	63	74492	10.399
80) Dibromomethane	(1)	8.198	93	47460	10.192
82) Methyl Methacrylate	(1)	8.231	69	67426	10.148
83) 1,4-Dioxane	(4)	8.237	88	31855	267.974
84) Bromodichloromethane	(1)	8.417	83	77805	9.673
85) 2-Nitropropane	(1)	8.700	41	49193	20.683
86) 2-Chloroethyl Vinyl Ether	(1)	8.822	63	57500	10.113
87) cis-1,3-Dichloropropene	(1)	9.002	75	105452	9.776
88) 4-Methyl-2-Pentanone	(1)	9.205	43	302538	25.388
93) Toluene	(2)	9.417	92	165866	10.595
94) trans-1,3-Dichloropropene	(2)	9.677	75	96168	9.328
95) Ethyl Methacrylate	(2)	9.793	69	113040	10.038
96) 1,1,2-Trichloroethane	(2)	9.874	97	63755	10.244

* = Compound is an internal standard.

PTL05 0525

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i05.d
Injection date and time: 04-MAR-2010 14:08

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 14:28 cbs01947

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
97) Tetrachloroethene	(2)	10.034	166	70048	10.535
98) 1,3-Dichloropropane	(2)	10.050	76	114564	10.420
100) 2-Hexanone	(2)	10.147	43	245696	26.494
101) Dibromochloromethane	(2)	10.282	129	62626	9.225
103) 1,2-Dibromoethane	(2)	10.394	107	71708	10.107
104) *Chlorobenzene-d5	(2)	10.845	117	779467	50.000
105) Chlorobenzene	(2)	10.874	112	189672	10.562
106) 1,1,1,2-Tetrachloroethane	(2)	10.947	131	61928	9.879
107) Ethylbenzene	(2)	10.976	91	318432	10.599
108) m+p-Xylene	(2)	11.082	106	250713	21.885
112) Xylene (Total)	(2)		106	373148	32.823
110) o-Xylene	(2)	11.430	106	122435	10.937
111) Styrene	(2)	11.439	104	201607	10.727
113) Bromoform	(2)	11.587	173	46813	8.748
114) Isopropylbenzene	(2)	11.735	105	285633	10.340
117) Cyclohexanone	(4)	11.803	55	108973	257.033
121) 1,1,2,2-Tetrachloroethane	(3)	11.963	83	110198	10.884
122) Bromobenzene	(3)	11.980	156	79688	10.660
123) 1,2,3-Trichloropropane	(3)	12.002	110	31253	10.822
124) trans-1,4-Dichloro-2-Butene	(3)	12.009	53	154753	51.196
125) n-Propylbenzene	(3)	12.063	120	86404	10.730
127) 2-Chlorotoluene	(3)	12.131	126	74602	10.811
128) 1,3,5-Trimethylbenzene	(3)	12.195	120	125822	10.716
129) 4-Chlorotoluene	(3)	12.214	126	79704	10.913
131) tert-Butylbenzene	(3)	12.449	134	57175	10.615
132) Pentachloroethane	(3)	12.465	167	43232	9.276
133) 1,2,4-Trimethylbenzene	(3)	12.478	105	259799	10.454
134) sec-Butylbenzene	(3)	12.613	134	64559	10.414
135) 1,3-Dichlorobenzene	(3)	12.697	146	150944	10.502
136) p-Isopropyltoluene	(3)	12.713	134	74764	10.303
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	442544	50.000
139) 1,4-Dichlorobenzene	(3)	12.761	146	162901	10.674
137) 1,2,3-Trimethylbenzene	(3)	12.793	120	113739	10.111
140) Benzyl Chloride	(3)	12.854	91	169784	8.641

* = Compound is an internal standard.

PTL85 8226

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i05.d
Injection date and time: 04-MAR-2010 14:08

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 14:28 cbs01947

Sample Name: VSTD010

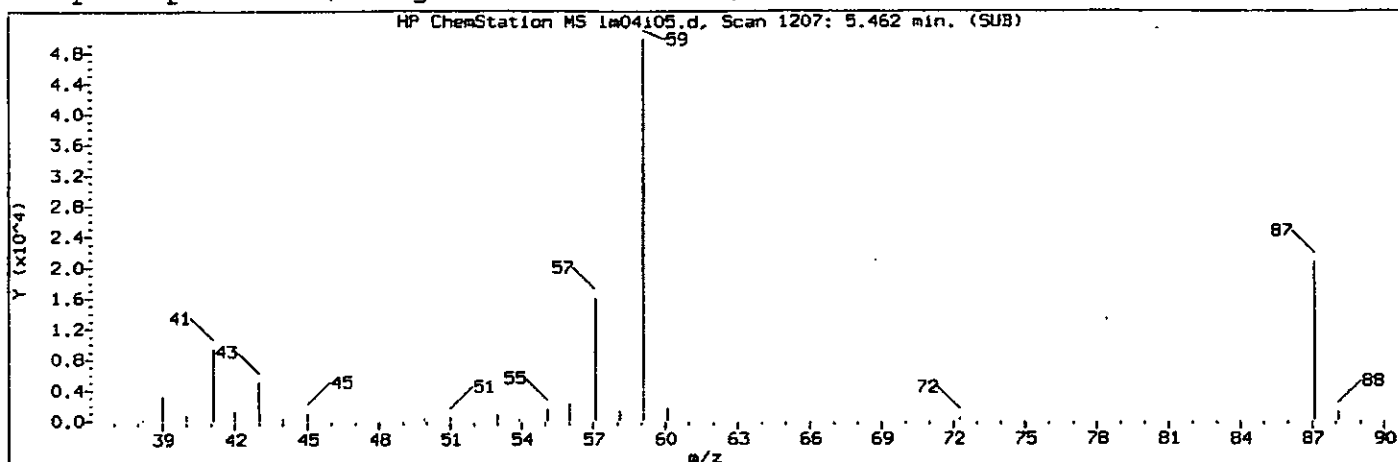
Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
141) 1,3-Diethylbenzene	(3)	12.925	119	160897	9.980
142) 1,4-Diethylbenzene	(3)	12.989	119	156694	9.883
144) n-Butylbenzene	(3)	13.005	92	131554	9.956
145) 1,2-Dichlorobenzene	(3)	13.034	146	143764	10.147
143) 1,2-Diethylbenzene	(3)	13.073	119	127699	9.778
146) 1,2-Dibromo-3-Chloropropane	(3)	13.565	75	19834	8.991
147) 1,3,5-Trichlorobenzene	(3)	13.716	180	112408	9.693
148) 1,2,4-Trichlorobenzene	(3)	14.127	180	106122	9.981
149) Hexachlorobutadiene	(3)	14.230	225	45722	9.726
150) Naphthalene	(3)	14.298	128	312861	10.031
152) 1,2,3-Trichlorobenzene	(3)	14.452	180	98532	9.938
153) 2-Methylnaphthalene	(3)	15.028	142	110930	6.435
54) \$Dibromofluoromethane	(1)	6.337	113	259093	49.168
55) \$Dibromofluoromethane (mz111)	(1)	6.333	111	266495	49.379
64) \$1,2-Dichloroethane-d4	(1)	6.796	102	61409	50.810
65) \$1,2-Dichloroethane-d4 (mz65)	(1)	6.796	65	313651	50.635
66) \$1,2-Dichloroethane-d4 (mz104)	(1)	6.800	104	38723	50.125
90) \$Toluene-d8	(2)	9.343	98	1043387	50.591
89) \$Toluene-d8 (mz100)	(2)	9.343	100	667695	50.287
119) \$4-Bromofluorobenzene	(2)	11.854	95	382607	49.484
118) \$4-Bromofluorobenzene (mz174)	(2)	11.857	174	323762	49.503

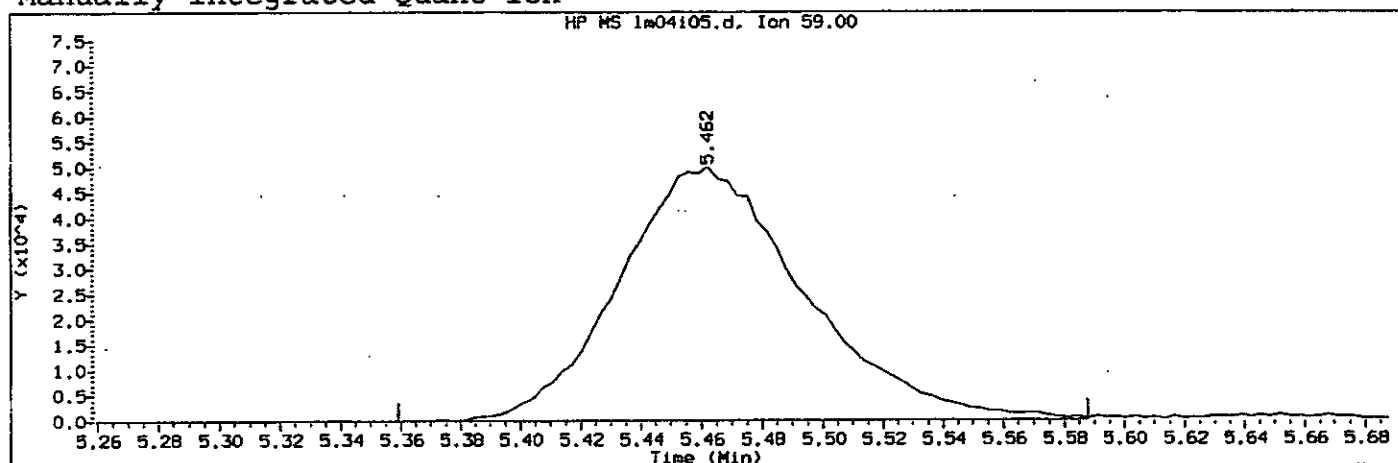
\$ = Compound is a surrogate standard.

PTL05 0227

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04i05.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:08 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 14:26
Date, time and analyst ID of latest file update: 04-Mar-2010 14:28 cbs01947

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compound Number : 42
Compound Name : Ethyl t-Butyl Ether
Scan Number : 1207
Retention Time (minutes): 5.462
Quant Ion : 59
Area (flag) : 212810 M
Concentration (ug/L) : 10.2773
Integration start scan : 1174 Integration stop scan: 1245
Y at integration start : 0 Y at integration end: 0

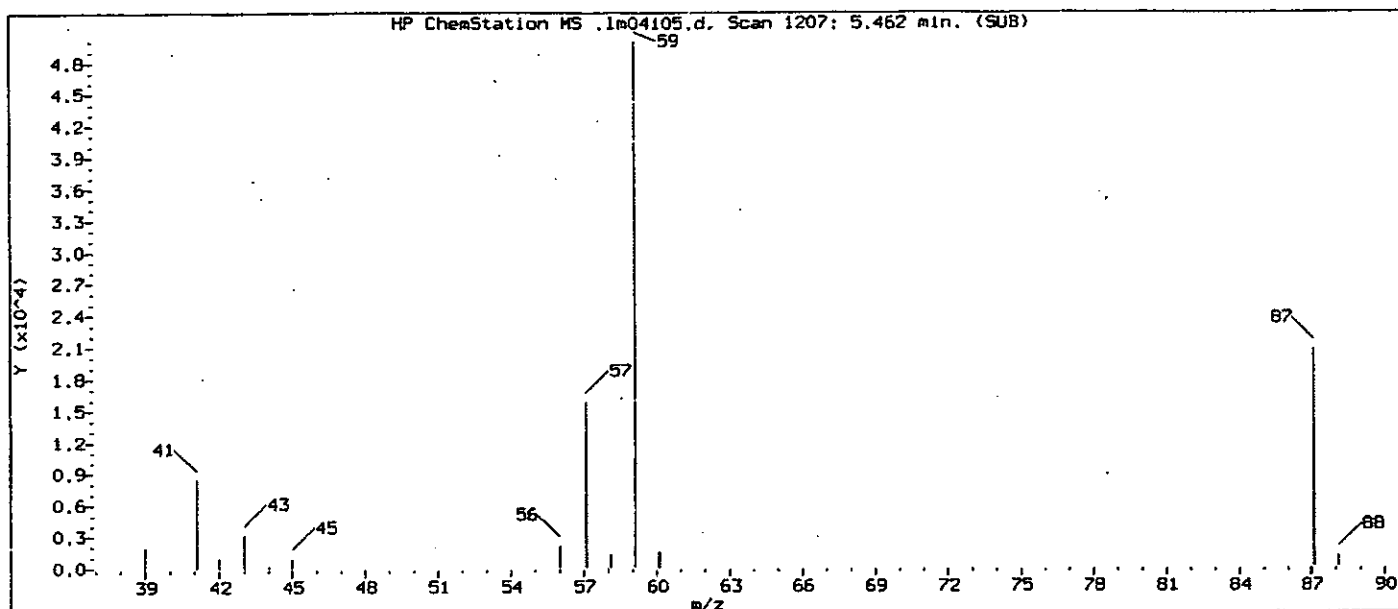
Reason for manual integration (circle one): missed peak Improper integration

Analyst responsible for change: CBE01947 Bkuno

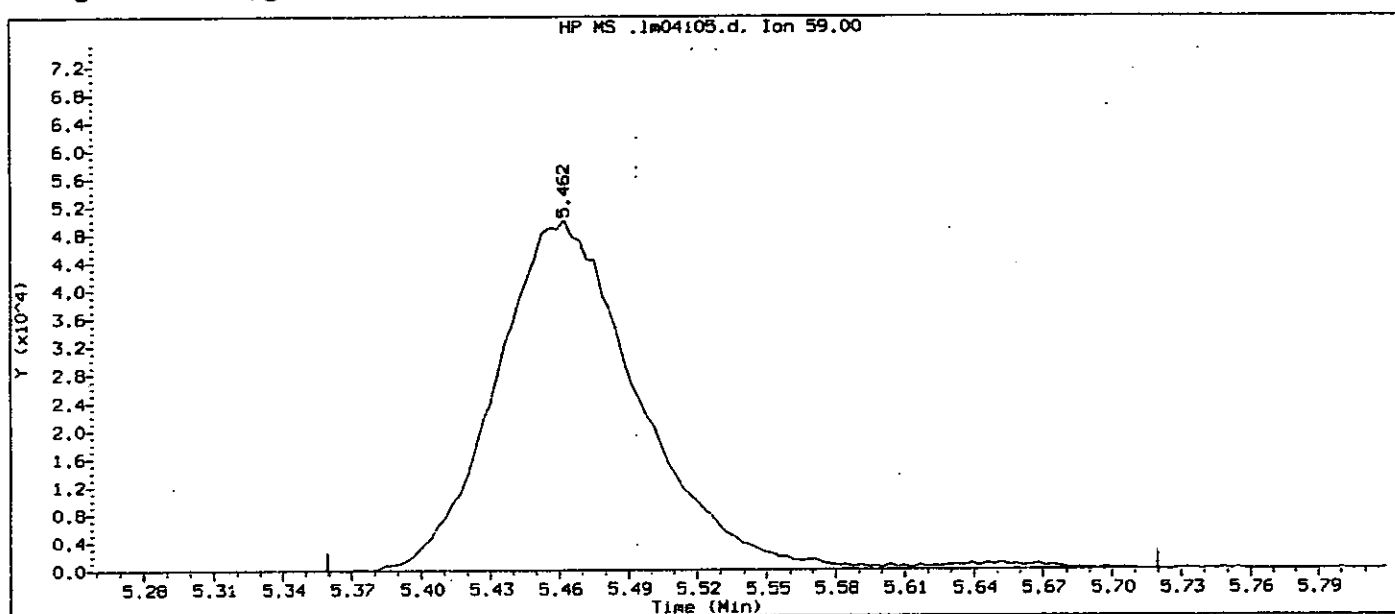
GC/MS audit/management approval: [Signature] 3/8/10

PTL85 8228

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04105.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:08 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 14:26
Date, time and analyst ID of latest file update: 04-Mar-2010 14:26 Automation

Sample Name: VSTD010

Lab Sample ID: VSTD010

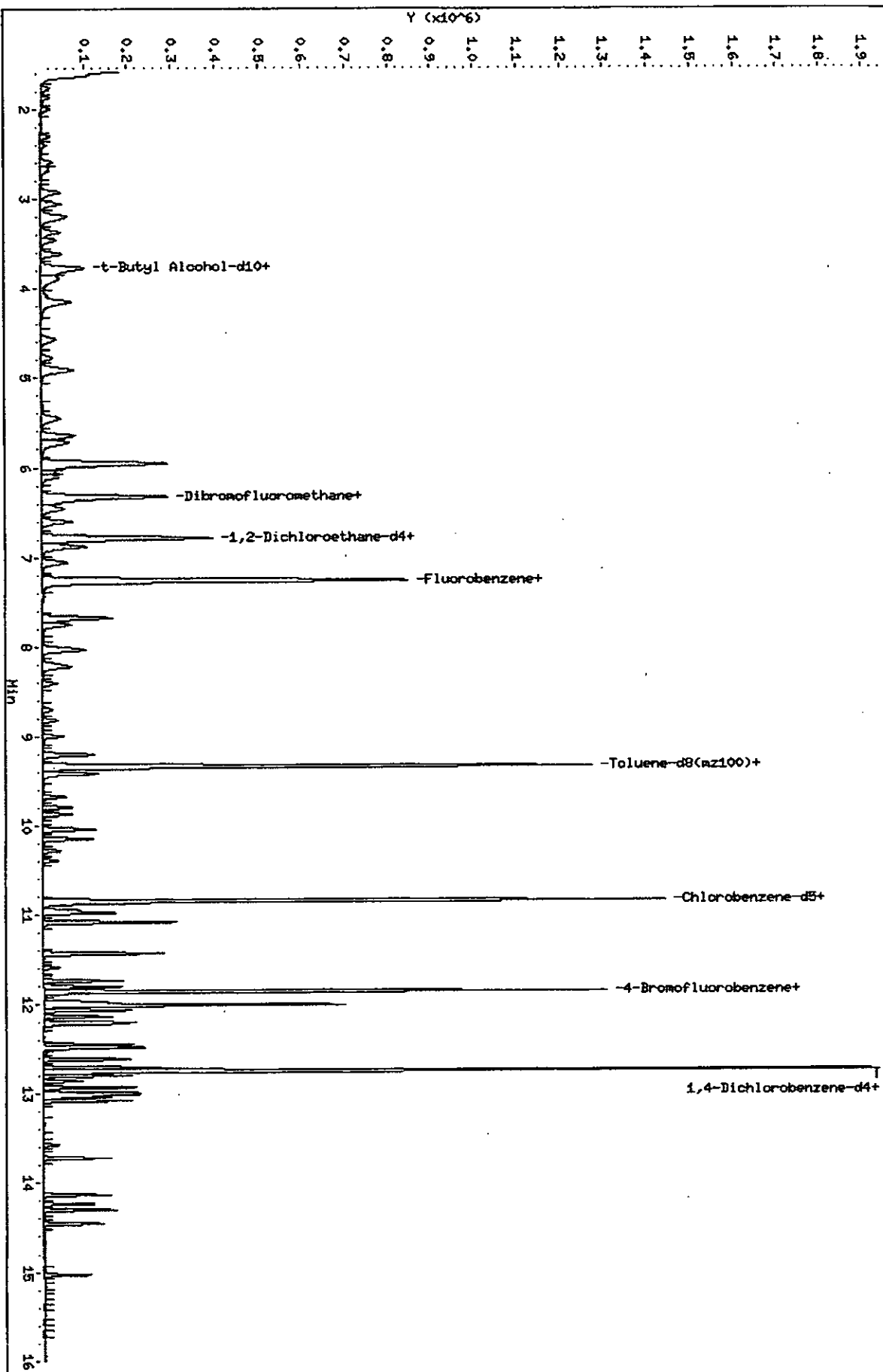
Compound Number : 42
Compound Name : Ethyl t-Butyl Ether
Scan Number : 1207
Retention Time (minutes): 5.462
Quant Ion : 59
Area : 216735
Concentration (ug/L) : 10.4274
Integration start scan : 1174 Integration stop scan: 1286
Y at integration start : 0 Y at integration end: 0

PTL05 0229

Data File: /chem/HP09915.1/10mar04c.b/1m04107.d
Date: 04-MAR-2010 15:18
Client ID: VSTD004
Sample Info: VSTD004;VSTD004;1;1;1;
Purge Volume: 5.0
Column Phase: DB-624

Instrument: HP09915.1
Operator: CBE01947
Column diameter: 0.25

/chem/HP09915.1/10mar04c.b/1m04107.d



082947
214110

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i07.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 15:18 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 15:39 cbs01947

Sample Name: VSTD004

Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)	1.755	85	39442	4.155
3) Chloromethane	(1)	1.864	50	26649	4.403
4) Vinyl Chloride	(1)	1.986	62	24593	4.347
7) Bromomethane	(1)	2.292	94	17980	4.523
9) Chloroethane	(1)	2.401	64	14131	4.680
10) Dichlorofluoromethane	(1)	2.588	67	38303	4.207
11) Trichlorofluoromethane	(1)	2.668	101	42022	4.141
13) Ethyl Ether	(1)	2.919	59	17954	4.127
12) Freon 123a	(1)	2.932	67	23131	3.853
16) Acrolein	(4)	3.054	56	61370	31.898
17) 1,1-Dichloroethene	(1)	3.189	96	20735	3.919
18) Freon 113	(1)	3.215	101	22286	4.041
20) Acetone	(1)	3.218	43	27197	8.842
21) 2-Propanol	(4)	3.369	45	61467	80.938
23) Methyl Iodide	(1)	3.366	142	41959	3.800
24) Carbon Disulfide	(1)	3.456	76	66809	3.644
28) Allyl Chloride	(1)	3.607	41	37580	3.687
26) Methyl Acetate	(1)	3.617	43	30878	4.012
29) Methylene Chloride	(1)	3.758	84	26850	4.042
30)*t-Butyl Alcohol-d10	(4)	3.777	65	221826	250.000
31) t-Butyl Alcohol	(4)	3.884	59	95831	79.894
32) Acrylonitrile	(1)	4.076	53	16851	4.229
33) trans-1,2-Dichloroethene	(1)	4.144	96	24288	3.861
34) Methyl Tertiary Butyl Ether	(1)	4.150	73	80126	3.803
35) n-Hexane	(1)	4.572	57	34503	4.082
43) 1,2-Dichloroethene (total)	(1)		96	49487	7.638
37) 1,1-Dichloroethane	(1)	4.774	63	44721M	3.875
40) di-Isopropyl Ether	(1)	4.903	45	88449	3.838
41) 2-Chloro-1,3-Butadiene	(1)	4.912	53	36629	3.783
42) Ethyl t-Butyl Ether	(1)	5.449	59	77228	3.735
44) cis-1,2-Dichloroethene	(1)	5.633	96	25199	3.777
47) 2-Butanone	(1)	5.655	43	49049M	8.841
45) 2,2-Dichloropropane	(1)	5.649	77	29972	3.478
48) Propionitrile	(4)	5.726	54	126577	82.731

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL05 0231

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i07.d
Injection date and time: 04-MAR-2010 15:18

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 15:39 cbs01947

Sample Name: VSTD004

Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
49) Methacrylonitrile	(1)	5.951	67	163232	39.628
50) Bromochloromethane	(1)	5.980	128	12331	3.700
51) Tetrahydrofuran	(4)	6.047	71	12320	9.477
53) Chloroform	(1)	6.105	83	42648	3.825
56) 1,1,1-Trichloroethane	(1)	6.372	97	45223	4.315
57) Cyclohexane	(1)	6.459	56	43079	4.024
59) Cyclohexane (mz 84)	(1)	6.459	84	35491	4.106
58) Cyclohexane (mz 69)	(1)	6.453	69	12659	4.086
60) 1,1-Dichloropropene	(1)	6.600	75	33445	3.843
61) Carbon Tetrachloride	(1)	6.600	117	27627	3.492
63) Isobutyl Alcohol	(4)	6.774	41	86343	203.936
67) Benzene	(1)	6.877	78	98774	3.846
68) 1,2-Dichloroethane	(1)	6.893	62	35227	3.807
69) 1,2-Dichloroethane (mz 98)	(1)	6.893	98	3077	3.881
71) t-Amyl Methyl Ether	(1)	7.057	73	72703	3.660
72) *Fluorobenzene	(1)	7.260	96	1082917	50.000
73) n-Heptane	(1)	7.276	43	37369	4.113
75) n-Butanol	(4)	7.678	56	137586	384.211
76) Trichloroethene	(1)	7.755	95	25477	3.856
77) Methylcyclohexane	(1)	8.025	83	41302	3.864
78) Methylcyclohexane (mz98)	(1)	8.022	98	18837	3.915
79) 1,2-Dichloropropane	(1)	8.044	63	27623	3.842
80) Dibromomethane	(1)	8.195	93	17725	3.800
82) Methyl Methacrylate	(1)	8.221	69	24972	3.760
83) 1,4-Dioxane	(4)	8.227	88	21635	190.360
84) Bromodichloromethane	(1)	8.411	83	28083	3.532
85) 2-Nitropropane	(1)	8.703	41	18441	7.718
86) 2-Chloroethyl Vinyl Ether	(1)	8.813	63	21347	3.756
87) cis-1,3-Dichloropropene	(1)	8.993	75	36774	3.461
88) 4-Methyl-2-Pentanone	(1)	9.205	43	112067	9.051
93) Toluene	(2)	9.420	92	61257	3.891
94) trans-1,3-Dichloropropene	(2)	9.671	75	33446	3.318
95) Ethyl Methacrylate	(2)	9.790	69	40297	3.608
96) 1,1,2-Trichloroethane	(2)	9.867	97	23528	3.780

* = Compound is an internal standard.

PTL05 0232

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i07.d
Injection date and time: 04-MAR-2010 15:18

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 15:39 cbs01947

Sample Name: VSTD004

Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
97) Tetrachloroethene	(2)	10.034	166	25885	3.875
98) 1,3-Dichloropropane	(2)	10.047	76	42728	3.869
100) 2-Hexanone	(2)	10.144	43	85583	8.918
101) Dibromochloromethane	(2)	10.282	129	21948	3.308
103) 1,2-Dibromoethane	(2)	10.398	107	25762	3.654
104) *Chlorobenzene-d5	(2)	10.845	117	788106	50.000
105) Chlorobenzene	(2)	10.874	112	68773	3.821
106) 1,1,1,2-Tetrachloroethane	(2)	10.944	131	21122	3.428
107) Ethylbenzene	(2)	10.976	91	114754	3.813
108) m+p-Xylene	(2)	11.083	106	88716	7.714
112) Xylene (Total)	(2)		106	131443	11.525
110) o-Xylene	(2)	11.430	106	42727	3.811
111) Styrene	(2)	11.436	104	68478	3.664
113) Bromoform	(2)	11.587	173	16274	3.137
114) Isopropylbenzene	(2)	11.735	105	108305	3.898
117) Cyclohexanone	(4)	11.803	55	75589	187.084
121) 1,1,2,2-Tetrachloroethane	(3)	11.964	83	40163	3.960
122) Bromobenzene	(3)	11.980	156	29256	3.916
123) 1,2,3-Trichloropropane	(3)	12.002	110	11604	4.003
124) trans-1,4-Dichloro-2-Butene	(3)	12.005	53	118055	39.091
125) n-Propylbenzene	(3)	12.063	120	33585	4.129
127) 2-Chlorotoluene	(3)	12.131	126	27813	4.013
128) 1,3,5-Trimethylbenzene	(3)	12.195	120	46000	3.919
129) 4-Chlorotoluene	(3)	12.214	126	29757	4.050
131) tert-Butylbenzene	(3)	12.449	134	21984	4.056
132) Pentachloroethane	(3)	12.465	167	15439	3.400
133) 1,2,4-Trimethylbenzene	(3)	12.481	105	98254	3.949
134) sec-Butylbenzene	(3)	12.610	134	24742	3.981
135) 1,3-Dichlorobenzene	(3)	12.700	146	57119	3.966
136) p-Isopropyltoluene	(3)	12.713	134	27787	3.845
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	444142	50.000
139) 1,4-Dichlorobenzene	(3)	12.758	146	60724	3.970
137) 1,2,3-Trimethylbenzene	(3)	12.793	120	42904	3.832
140) Benzyl Chloride	(3)	12.854	91	55119	2.943

* = Compound is an internal standard.

PTL05 8233

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04i07.d
Injection date and time: 04-MAR-2010 15:18

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 15:39 cbs01947

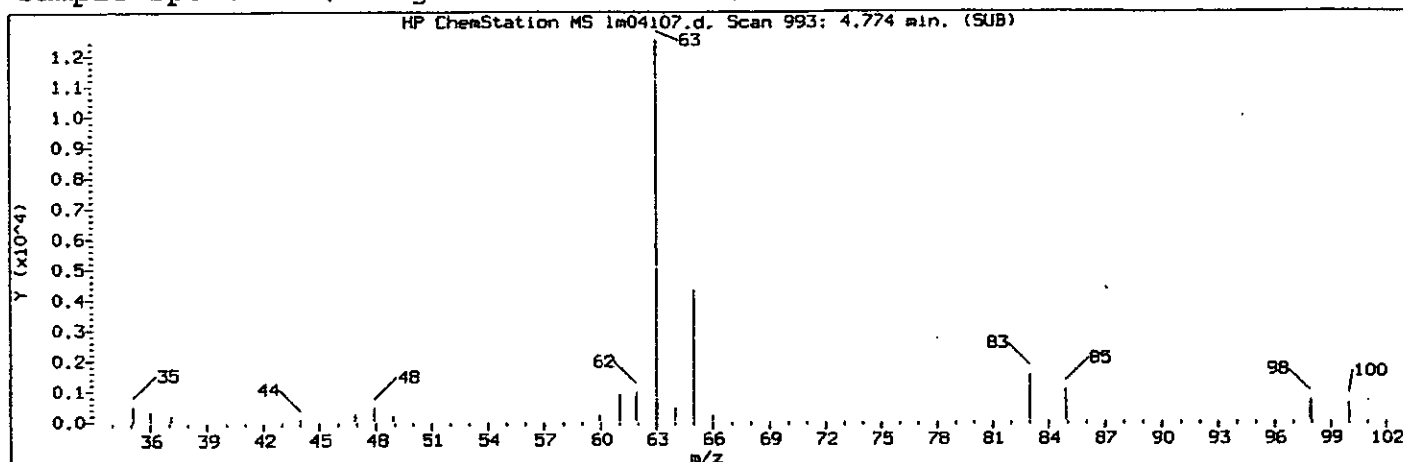
Sample Name: VSTD004

Lab Sample ID: VSTD004

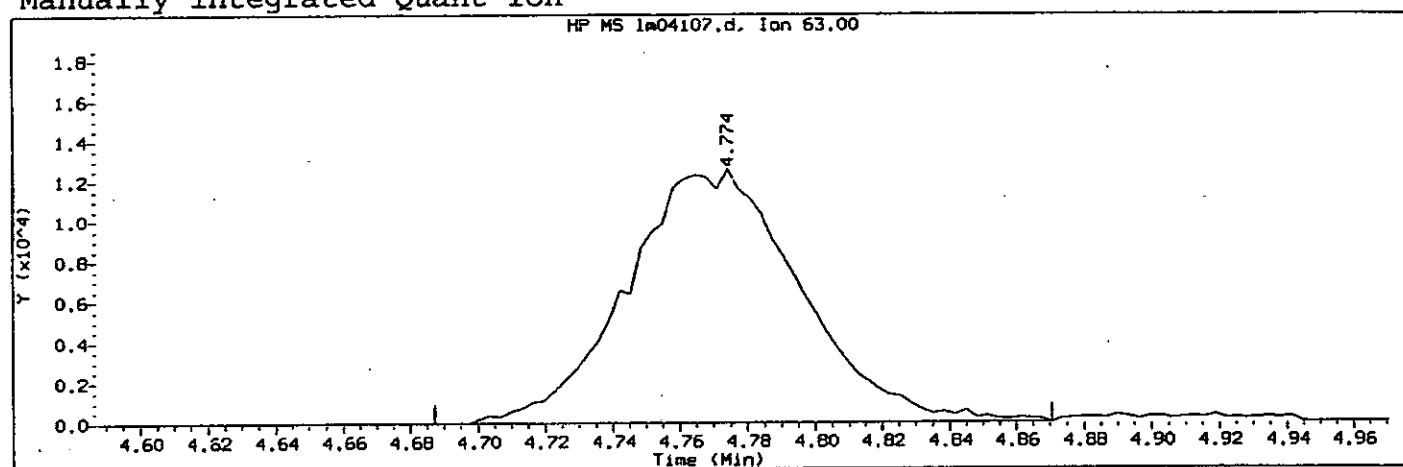
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
141) 1,3-Diethylbenzene	(3)	12.925	119	60627	3.787
142) 1,4-Diethylbenzene	(3)	12.986	119	60111	3.813
144) n-Butylbenzene	(3)	13.005	92	51781	3.920
145) 1,2-Dichlorobenzene	(3)	13.031	146	54078	3.835
143) 1,2-Diethylbenzene	(3)	13.073	119	49367	3.804
146) 1,2-Dibromo-3-Chloropropane	(3)	13.568	75	7401	3.437
147) 1,3,5-Trichlorobenzene	(3)	13.719	180	42719	3.722
148) 1,2,4-Trichlorobenzene	(3)	14.127	180	40280	3.811
149) Hexachlorobutadiene	(3)	14.234	225	17938	3.834
150) Naphthalene	(3)	14.298	128	114975	3.724
152) 1,2,3-Trichlorobenzene	(3)	14.452	180	36031	3.679
153) 2-Methylnaphthalene	(3)	15.028	142	43550	2.683
54) \$Dibromofluoromethane	(1)	6.327	113	258847	48.789
55) \$Dibromofluoromethane (mz111)	(1)	6.321	111	269755	49.504
64) \$1,2-Dichloroethane-d4	(1)	6.790	102	61473	50.229
65) \$1,2-Dichloroethane-d4 (mz65)	(1)	6.787	65	314623	50.171
66) \$1,2-Dichloroethane-d4 (mz104)	(1)	6.793	104	39001	49.918
90) \$Toluene-d8	(2)	9.340	98	1062363	50.786
89) \$Toluene-d8 (mz100)	(2)	9.337	100	674073	50.175
119) \$4-Bromofluorobenzene	(2)	11.857	95	386172	49.497
118) \$4-Bromofluorobenzene (mz174)	(2)	11.857	174	330605	49.996

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04107.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 15:18 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 15:36
Date, time and analyst ID of latest file update: 04-Mar-2010 15:39 cbs01947

Sample Name: VSTD004

Lab Sample ID: VSTD004

Compound Number : 37
Compound Name : 1,1-Dichloroethane
Scan Number : 993
Retention Time (minutes): 4.774
Quant Ion : 63
Area (flag) : 44721 M
Concentration (ug/L) : 3.8746
Integration start scan : 965 Integration stop scan: 1022
Y at integration start : 0 Y at integration end: 0

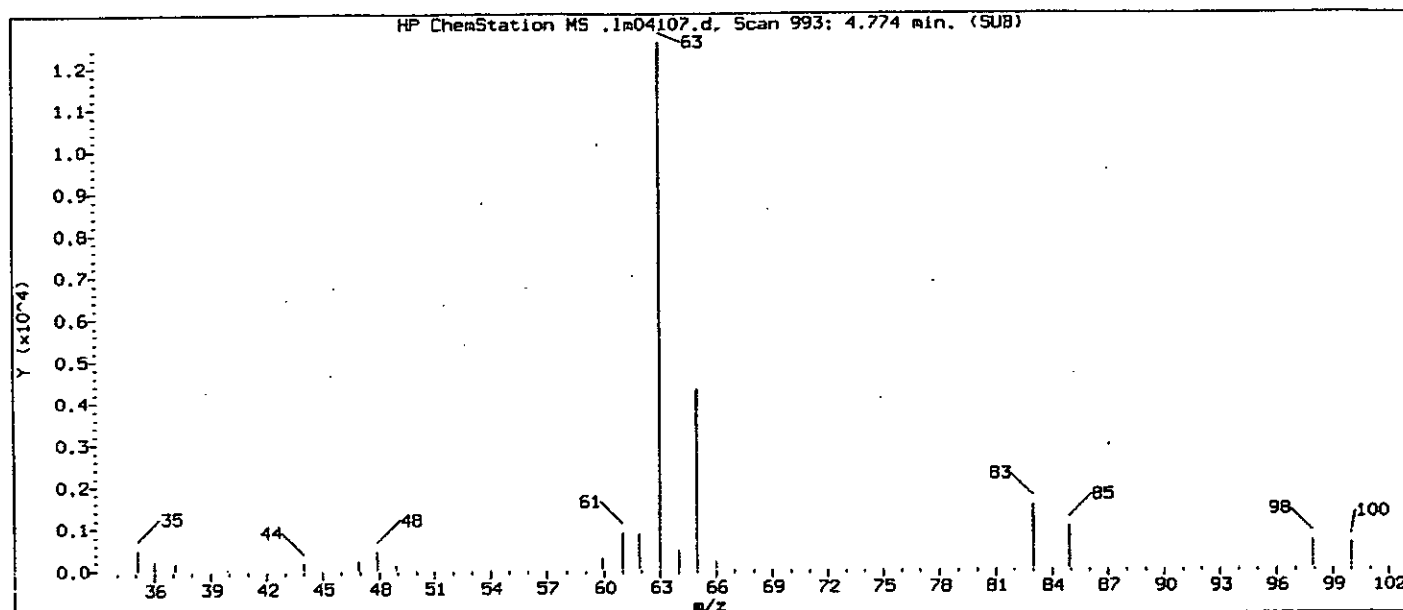
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: OBERUA BUNIO

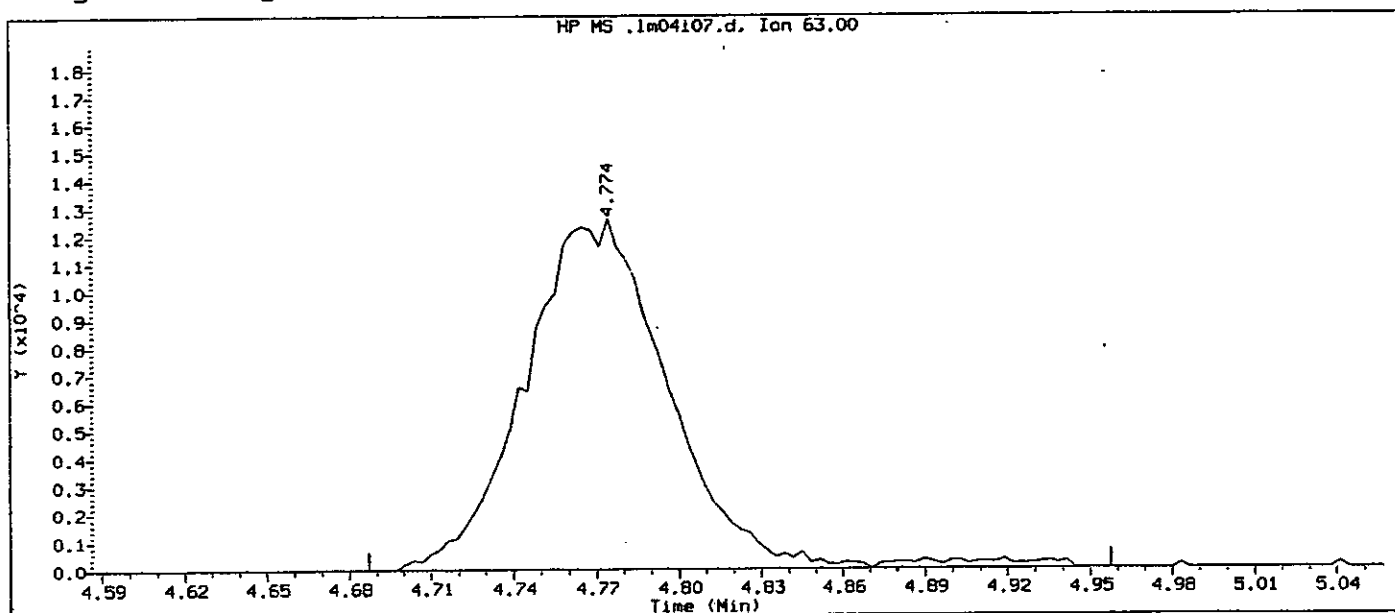
GC/MS audit/management approval: [Signature] 3/8/10

PTL05 0235

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04107.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 15:18 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 15:36
Date, time and analyst ID of latest file update: 04-Mar-2010 15:36 Automation

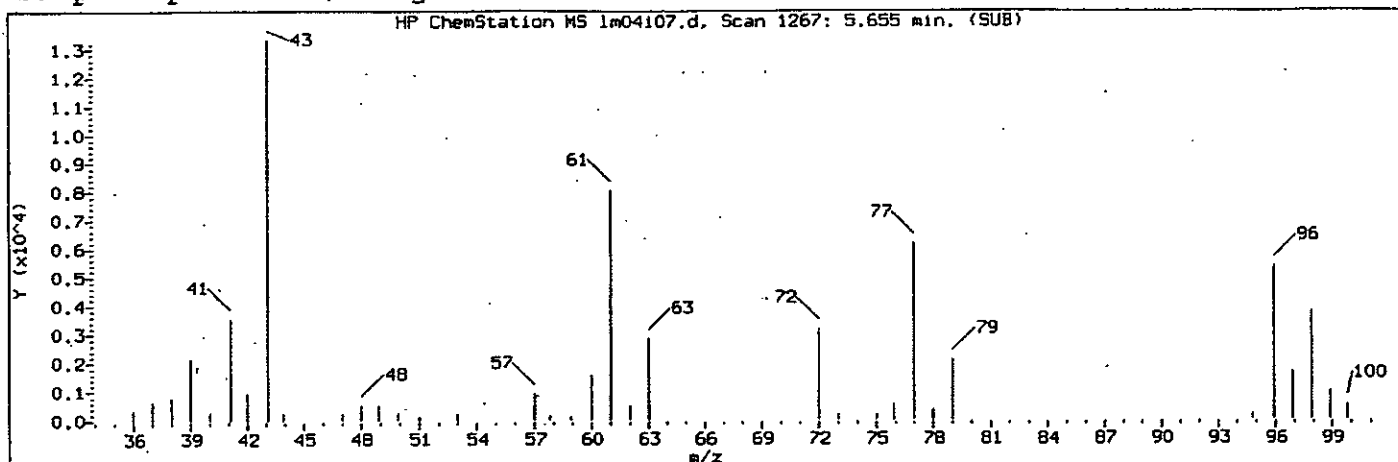
Sample Name: VSTD004

Lab Sample ID: VSTD004

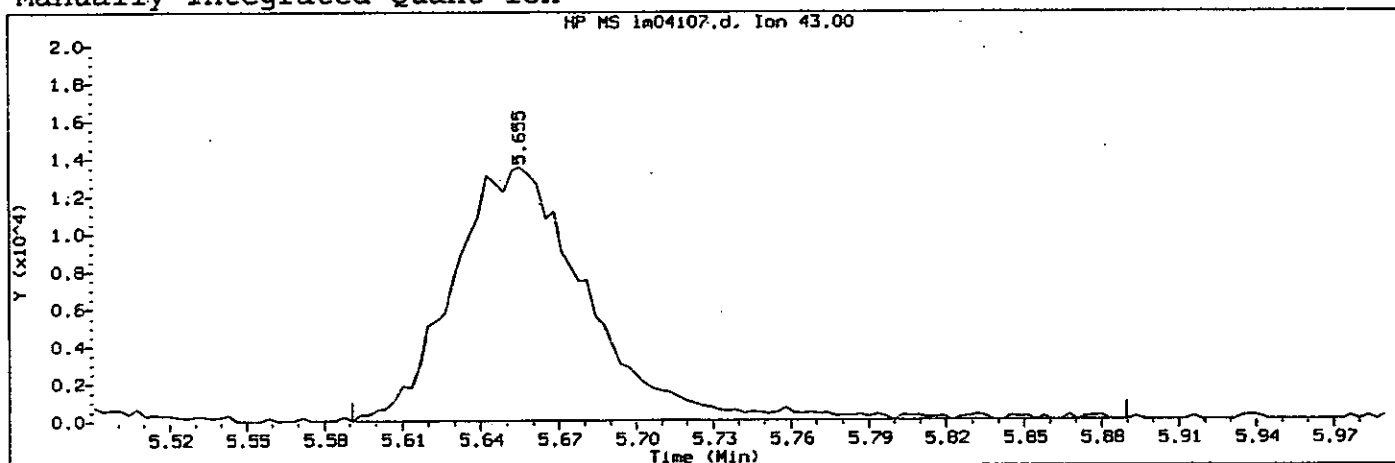
Compound Number : 37
Compound Name : 1,1-Dichloroethane
Scan Number : 993
Retention Time (minutes) : 4.774
Quant Ion : 63
Area : 45751
Concentration (ug/L) : 3.9492
Integration start scan : 965 Integration stop scan: 1049
Y at integration start : 0 Y at integration end: 0

PTL05 0236

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04107.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 15:18 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 15:36
Date, time and analyst ID of latest file update: 04-Mar-2010 15:39 cbs01947

Sample Name: VSTD004

Lab Sample ID: VSTD004

Compound Number : 47
Compound Name : 2-Butanone
Scan Number : 1267
Retention Time (minutes): 5.655
Quant Ion : 43
Area (flag) : 49049 M
Concentration (ug/L) : 8.8415
Integration start scan : 1246 Integration stop scan: 1339
Y at integration start : 0 Y at integration end: 0

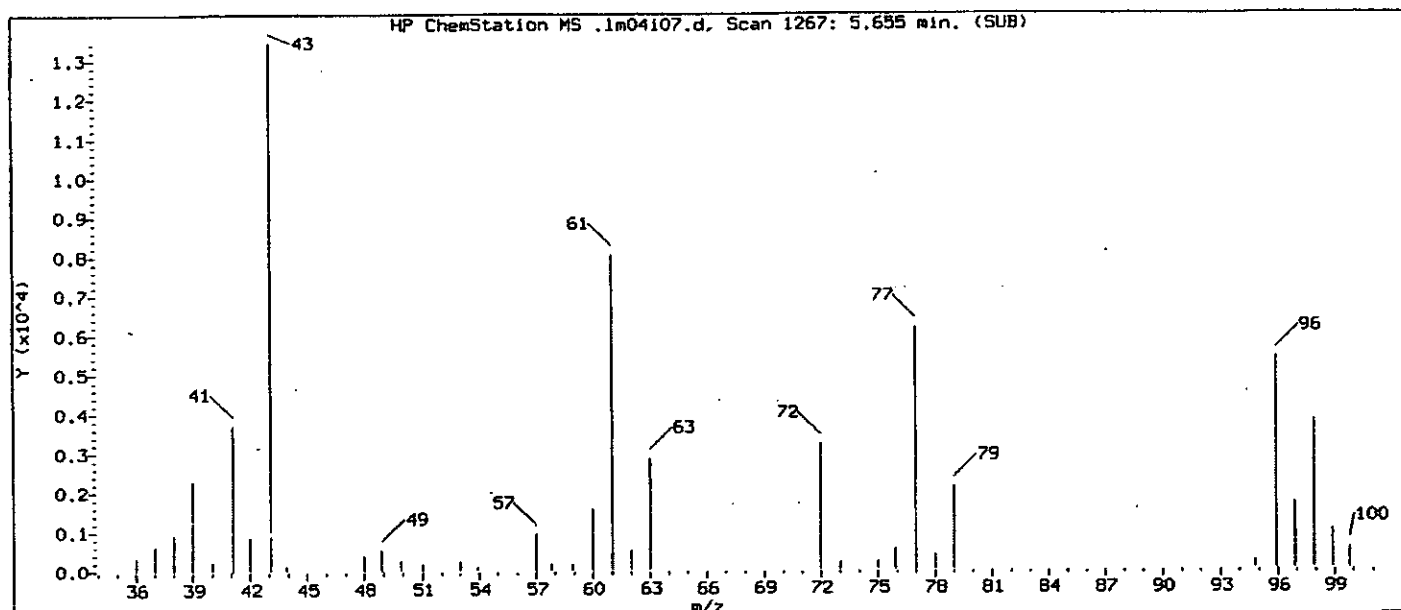
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: OBEQUA 3/4/10

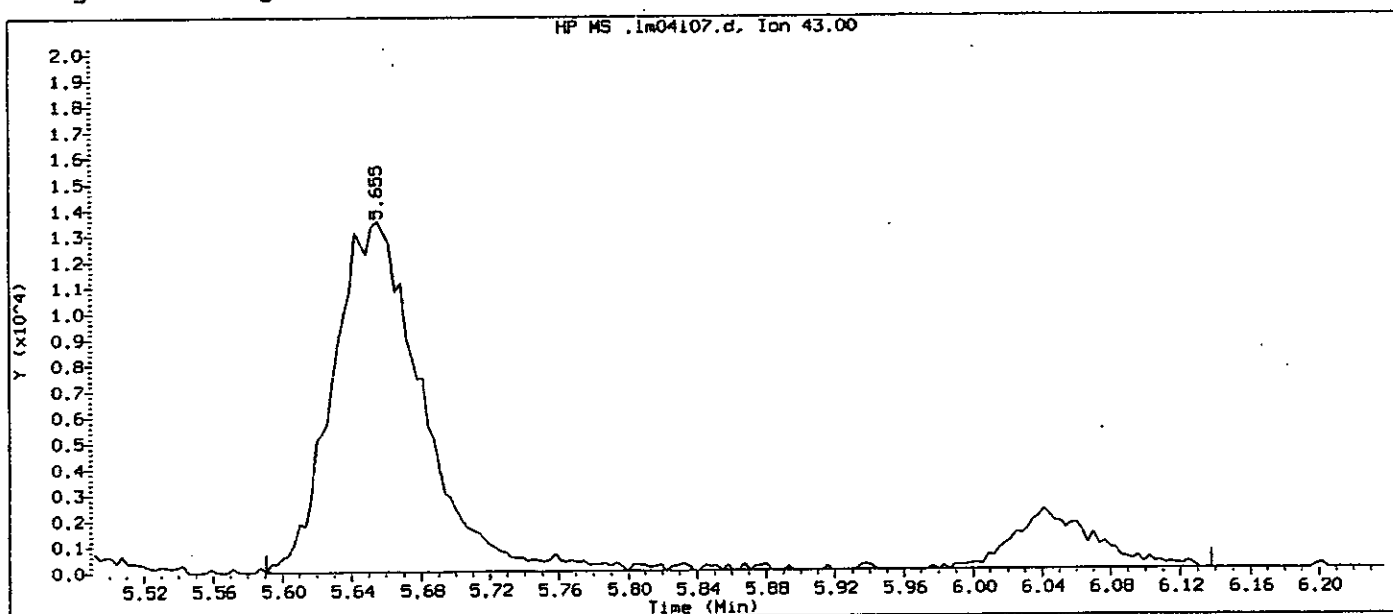
GC/MS audit/management approval: [Signature] 3/8/10

PTL05 0237

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04107.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 15:18 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 04-MAR-2010 15:36
Date, time and analyst ID of latest file update: 04-Mar-2010 15:36 Automation

Sample Name: VSTD004

Lab Sample ID: VSTD004

Compound Number : 47
Compound Name : 2-Butanone
Scan Number : 1267
Retention Time (minutes): 5.655
Quant Ion : 43
Area : 56795
Concentration (ug/L) : 9.9483
Integration start scan : 1246
Y at integration start : 0

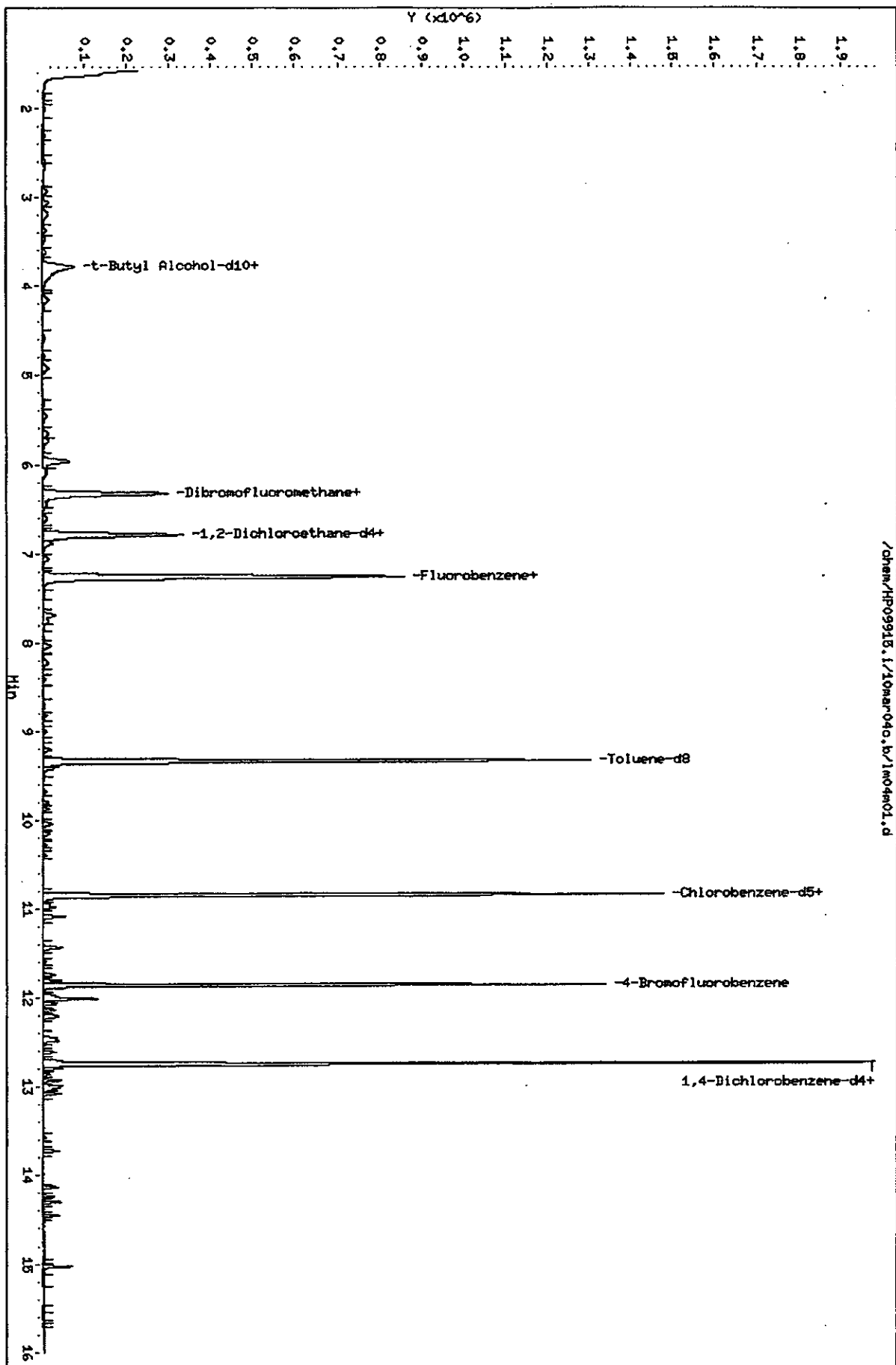
Integration stop scan: 1416
Y at integration end: 0

PTL05 0238

Data File: /chem/HP09915.1/10mar04o.b/1m04m01.d
Date: 04-MAR-2010 14:51
Client ID: 1PPB HDL
Sample Info: 1PPB HDL;1 PPB HDL;1133HDL/LOQ;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.1
Operator: CBE01947
Column diameter: 0.25

/chem/HP09915.1/10mar04o.b/1m04m01.d



CBE01947
3/4/10

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04m01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:51 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W-2MN
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 16:00 cbs01947

Sample Name: 1PPB MDL

Lab Sample ID: 1 PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)	1.765	85	6919	0.704
3) Chloromethane	(1)	1.868	50	5137	0.820
4) Vinyl Chloride	(1)	1.983	62	4468	0.763
7) Bromomethane	(1)	2.305	94	3558	0.864
9) Chloroethane	(1)	2.405	64	2696	0.798
10) Dichlorofluoromethane	(1)	2.585	67	7990	0.848
11) Trichlorofluoromethane	(1)	2.659	101	8203	0.781
13) Ethyl Ether	(1)	2.932	59	3904	0.867
12) Freon 123a	(1)	2.925	67	4436	0.714
16) Acrolein	(4)	3.064	56	21367	10.469
17) 1,1-Dichloroethene	(1)	3.192	96	3828	0.699
18) Freon 113	(1)	3.224	101	3204	0.561
20) Acetone	(1)	3.224	43	7361	2.311
21) 2-Propanol	(4)	3.379	45	12507M	15.526
23) Methyl Iodide	(1)	3.366	142	7675	0.671
24) Carbon Disulfide	(1)	3.462	76	12205	0.643
28) Allyl Chloride	(1)	3.607	41	7726	0.732
26) Methyl Acetate	(1)	3.630	43	7878M	0.989
29) Methylene Chloride	(1)	3.765	84	6897	1.003
30) *t-Butyl Alcohol-d10	(4)	3.787	65	235315	250.000
31) t-Butyl Alcohol	(4)	3.903	59	23624	18.566
32) Acrylonitrile	(1)	4.096	53	3656	0.886
33) trans-1,2-Dichloroethene	(1)	4.150	96	4464	0.685
34) Methyl Tertiary Butyl Ether	(1)	4.170	73	17362	0.796
35) n-Hexane	(1)	4.565	57	4635	0.530
43) 1,2-Dichloroethene (total)	(1)		96	9373	1.396
37) 1,1-Dichloroethane	(1)	4.771	63	8289	0.694
40) di-Isopropyl Ether	(1)	4.912	45	18420	0.772
41) 2-Chloro-1,3-Butadiene	(1)	4.925	53	5985	0.597
42) Ethyl t-Butyl Ether	(1)	5.453	59	16760	0.783
44) cis-1,2-Dichloroethene	(1)	5.639	96	4909	0.711
47) 2-Butanone	(1)	5.678	43	9929M	1.729
45) 2,2-Dichloropropane	(1)	5.652	77	5095	0.571
48) Propionitrile	(4)	5.736	54	30115	18.555

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL05 0240

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04m01.d
Injection date and time: 04-MAR-2010 14:51

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W-2MN
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 16:00 cbs01947

Sample Name: 1PPB MDL

Lab Sample ID: 1 PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
49) Methacrylonitrile	(1)	5.961	67	37281	8.741
50) Bromochloromethane	(1)	5.986	128	2830	0.820
51) Tetrahydrofuran	(4)	6.048	71	3464	2.512
53) Chloroform	(1)	6.112	83	8066	0.699
56) 1,1,1-Trichloroethane	(1)	6.379	97	7857	0.724
57) Cyclohexane	(1)	6.456	56	6631	0.598
60) 1,1-Dichloropropene	(1)	6.607	75	5505	0.611
61) Carbon Tetrachloride	(1)	6.604	117	4425	0.540
63) Isobutyl Alcohol	(4)	6.774	41	21250	47.314
67) Benzene	(1)	6.887	78	18550	0.698
68) 1,2-Dichloroethane	(1)	6.906	62	7321	0.764
71) t-Amyl Methyl Ether	(1)	7.057	73	16027	0.779
72)*Fluorobenzene	(1)	7.263	96	1121248	50.000
73) n-Heptane	(1)	7.279	43	6042	0.642
75) n-Butanol	(4)	7.691	56	30674	80.747
76) Trichloroethene	(1)	7.761	95	4410	0.645
77) Methylcyclohexane	(1)	8.022	83	7035	0.636
79) 1,2-Dichloropropane	(1)	8.047	63	5353	0.719
80) Dibromomethane	(1)	8.189	93	3956	0.819
82) Methyl Methacrylate	(1)	8.231	69	4883	0.710
83) 1,4-Dioxane	(4)	8.224	88	5489	45.527
84) Bromodichloromethane	(1)	8.411	83	5841	0.709
85) 2-Nitropropane	(1)	8.697	41	3432	1.387
86) 2-Chloroethyl Vinyl Ether	(1)	8.835	63	4915	0.835
87) cis-1,3-Dichloropropene	(1)	8.996	75	6956	0.632
88) 4-Methyl-2-Pentanone	(1)	9.205	43	19178	1.496
93) Toluene	(2)	9.424	92	11515	0.702
94) trans-1,3-Dichloropropene	(2)	9.681	75	6357	0.605
95) Ethyl Methacrylate	(2)	9.797	69	8221	0.706
96) 1,1,2-Trichloroethane	(2)	9.870	97	5259	0.810
97) Tetrachloroethene	(2)	10.034	166	4325	0.621
98) 1,3-Dichloropropane	(2)	10.051	76	9009	0.782
100) 2-Hexanone	(2)	10.150	43	13749M	1.270
101) Dibromochloromethane	(2)	10.288	129	4645	0.672

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL05 0241

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04m01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:51 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W-2MN
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 16:00 cbs01947

Sample Name: 1PPB MDL

Lab Sample ID: 1 PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
103) 1,2-Dibromoethane	(2)	10.395	107	5605	0.762
104) *Chlorobenzene-d5	(2)	10.845	117	821658	50.000
105) Chlorobenzene	(2)	10.870	112	13570	0.723
106) 1,1,1,2-Tetrachloroethane	(2)	10.948	131	3830	0.596
107) Ethylbenzene	(2)	10.977	91	20145	0.642
108) m+p-Xylene	(2)	11.086	106	15487	1.292
112) Xylene (Total)	(2)		106	23178	1.950
110) o-Xylene	(2)	11.430	106	7691	0.658
111) Styrene	(2)	11.436	104	12327	0.633
113) Bromoform	(2)	11.587	173	3480	0.644
114) Isopropylbenzene	(2)	11.735	105	16866	0.582
117) Cyclohexanone	(4)	11.803	55	19559	45.634
121) 1,1,2,2-Tetrachloroethane	(3)	11.967	83	8732	0.838
122) Bromobenzene	(3)	11.980	156	5971	0.777
123) 1,2,3-Trichloropropane	(3)	11.996	110	2671	0.896
124) trans-1,4-Dichloro-2-Butene	(3)	12.009	53	22229	7.160
125) n-Propylbenzene	(3)	12.063	120	5325	0.637
127) 2-Chlorotoluene	(3)	12.131	126	4975	0.698
128) 1,3,5-Trimethylbenzene	(3)	12.198	120	7637	0.633
129) 4-Chlorotoluene	(3)	12.214	126	5115	0.677
131) tert-Butylbenzene	(3)	12.443	134	3664	0.658
132) Pentachloroethane	(3)	12.465	167	3239	0.694
133) 1,2,4-Trimethylbenzene	(3)	12.485	105	16371M	0.640
134) sec-Butylbenzene	(3)	12.613	134	3686	0.577
135) 1,3-Dichlorobenzene	(3)	12.700	146	10651	0.719
136) p-Isopropyltoluene	(3)	12.713	134	4647	0.625
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	456595	50.000
139) 1,4-Dichlorobenzene	(3)	12.764	146	11706	0.745
137) 1,2,3-Trimethylbenzene	(3)	12.796	120	8857	0.770
140) Benzyl Chloride	(3)	12.854	91	10523	0.547
141) 1,3-Diethylbenzene	(3)	12.925	119	12235	0.743
142) 1,4-Diethylbenzene	(3)	12.986	119	12648	0.780
144) n-Butylbenzene	(3)	13.005	92	8794	0.648
145) 1,2-Dichlorobenzene	(3)	13.034	146	11324	0.781

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL05 0242

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04m01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:51 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W-2MN
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 16:00 cbs01947

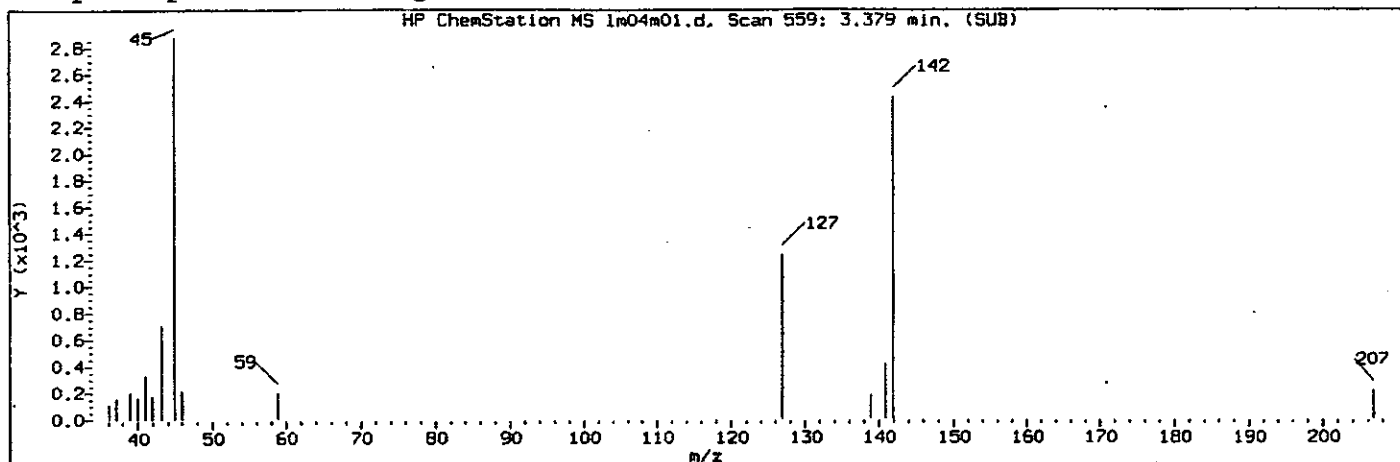
Sample Name: 1PPB MDL

Lab Sample ID: 1 PPB MDL

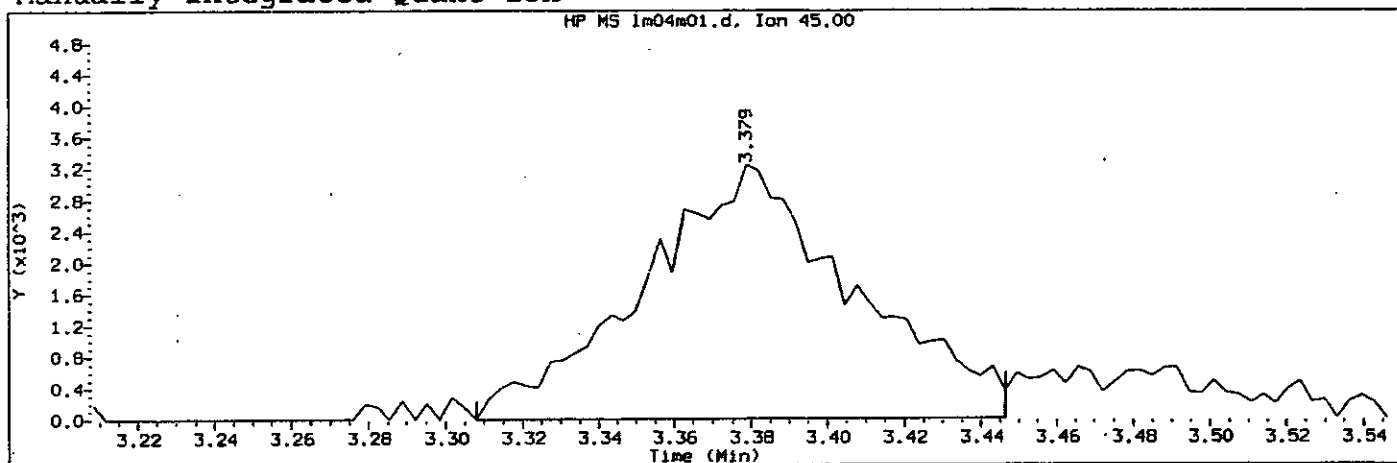
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
143) 1,2-Diethylbenzene	(3)	13.076	119	10297	0.772
146) 1,2-Dibromo-3-Chloropropane	(3)	13.568	75	1758	0.794
148) 1,2,4-Trichlorobenzene	(3)	14.131	180	9367	0.862
149) Hexachlorobutadiene	(3)	14.227	225	4381	0.911
150) Naphthalene	(3)	14.298	128	29264	0.922
152) 1,2,3-Trichlorobenzene	(3)	14.452	180	9984	0.992
54) \$Dibromofluoromethane	(1)	6.330	113	272148	49.543
64) \$1,2-Dichloroethane-d4	(1)	6.790	102	63361	50.002
90) \$Toluene-d8	(2)	9.340	98	1099214	50.402
119) \$4-Bromofluorobenzene	(2)	11.854	95	398963	49.048

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/1m04m01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:51 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W-2MN
Calibration date and time: 04-MAR-2010 15:57
Date, time and analyst ID of latest file update: 04-Mar-2010 16:00 cbs01947

Sample Name: 1PPB MDL

Lab Sample ID: 1 PPB MDL

Compound Number : 21
Compound Name : 2-Propanol
Scan Number : 559
Retention Time (minutes) : 3.379
Quant Ion : 45
Area (flag) : 12507 M
Concentration (ug/L) : 15.5257
Integration start scan : 536 Integration stop scan: 579
Y at integration start : 0 Y at integration end: 0

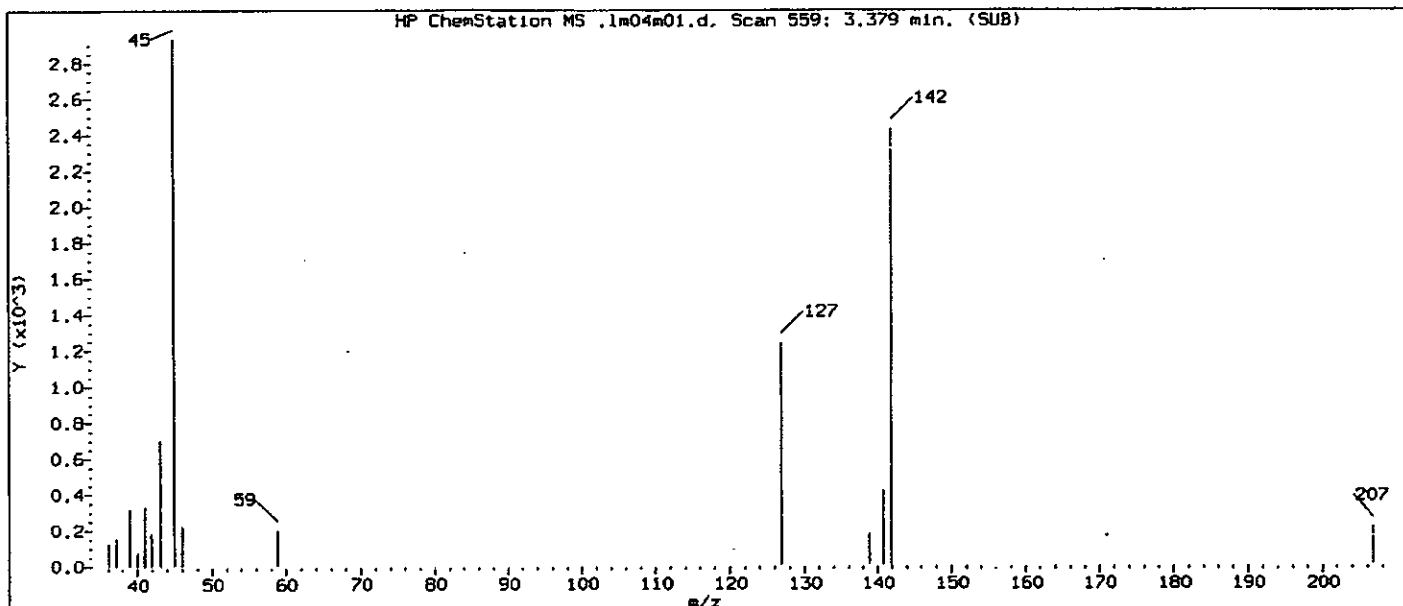
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: OBEQUA 3/4/10

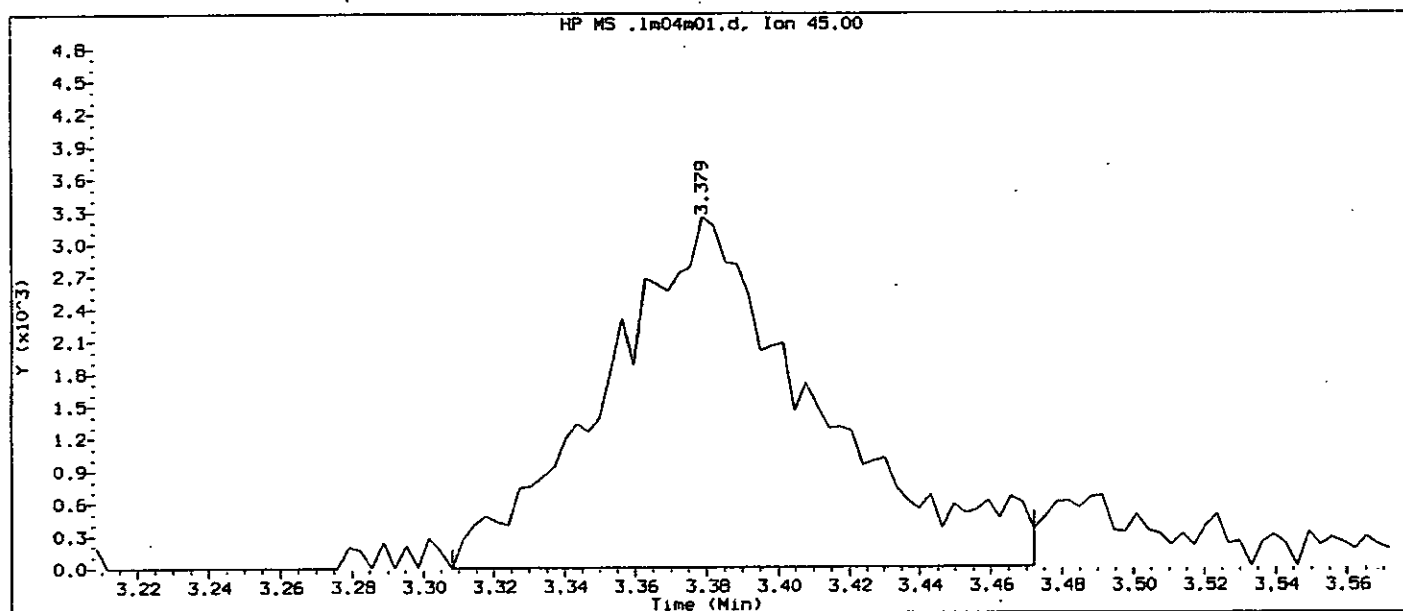
GC/MS audit/management approval: [Signature] 3/8/10

PTL85 0244

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04m01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:51 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 04-MAR-2010 15:51
Date, time and analyst ID of latest file update: 04-Mar-2010 15:51 cbs01947

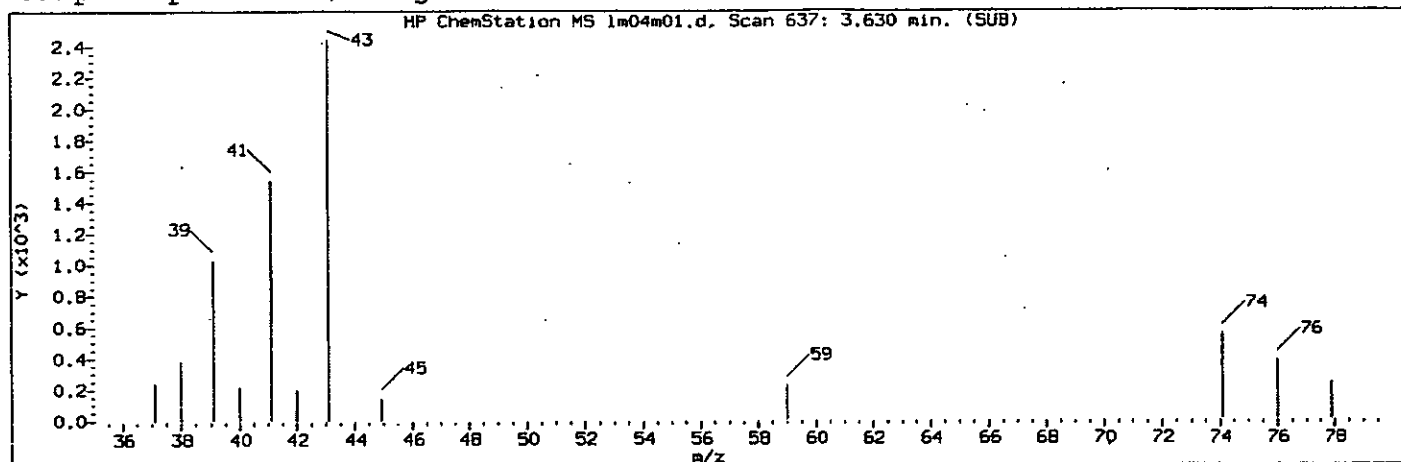
Sample Name: 1PPB MDL

Lab Sample ID: 1 PPB MDL

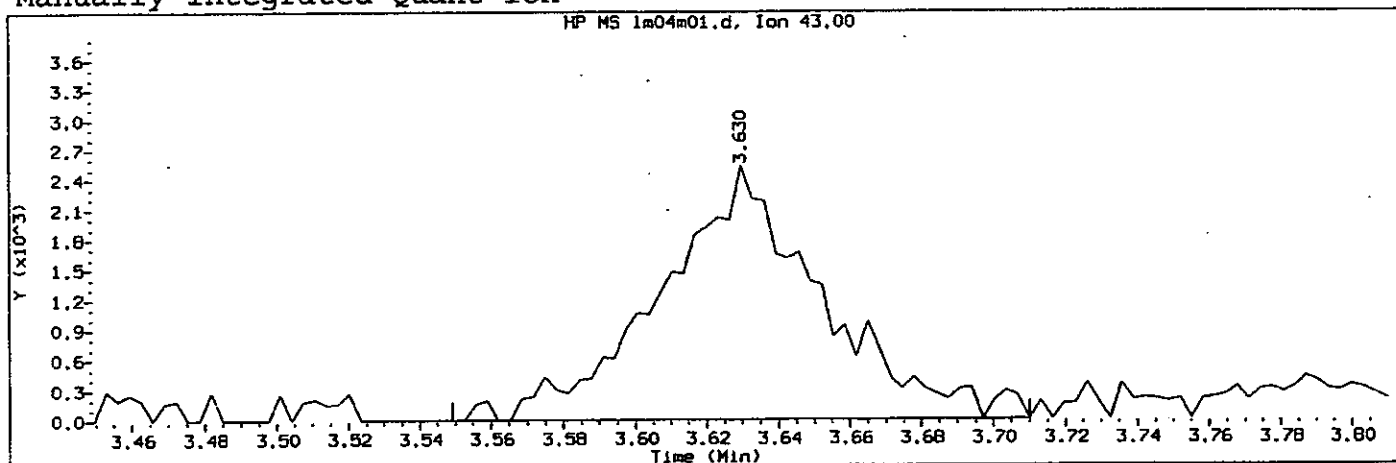
Compound Number : 21
Compound Name : 2-Propanol
Scan Number : 559
Retention Time (minutes): 3.379
Quant Ion : 45
Area : 13297
Concentration (ug/L) : 16.5057
Integration start scan : 536 Integration stop scan: 587
Y at integration start : 0 Y at integration end: 0

PTL05 0245

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/1m04m01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:51 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W-2MN
Calibration date and time: 04-MAR-2010 15:57
Date, time and analyst ID of latest file update: 04-Mar-2010 16:00 cbs01947

Sample Name: 1PPB MDL

Lab Sample ID: 1 PPB MDL

Compound Number : 26
Compound Name : Methyl Acetate
Scan Number : 637
Retention Time (minutes): 3.630
Quant Ion : 43
Area (flag) : 7878 M
Concentration (ug/L) : 0.9886
Integration start scan : 611 Integration stop scan: 661
Y at integration start : 0 Y at integration end: 0

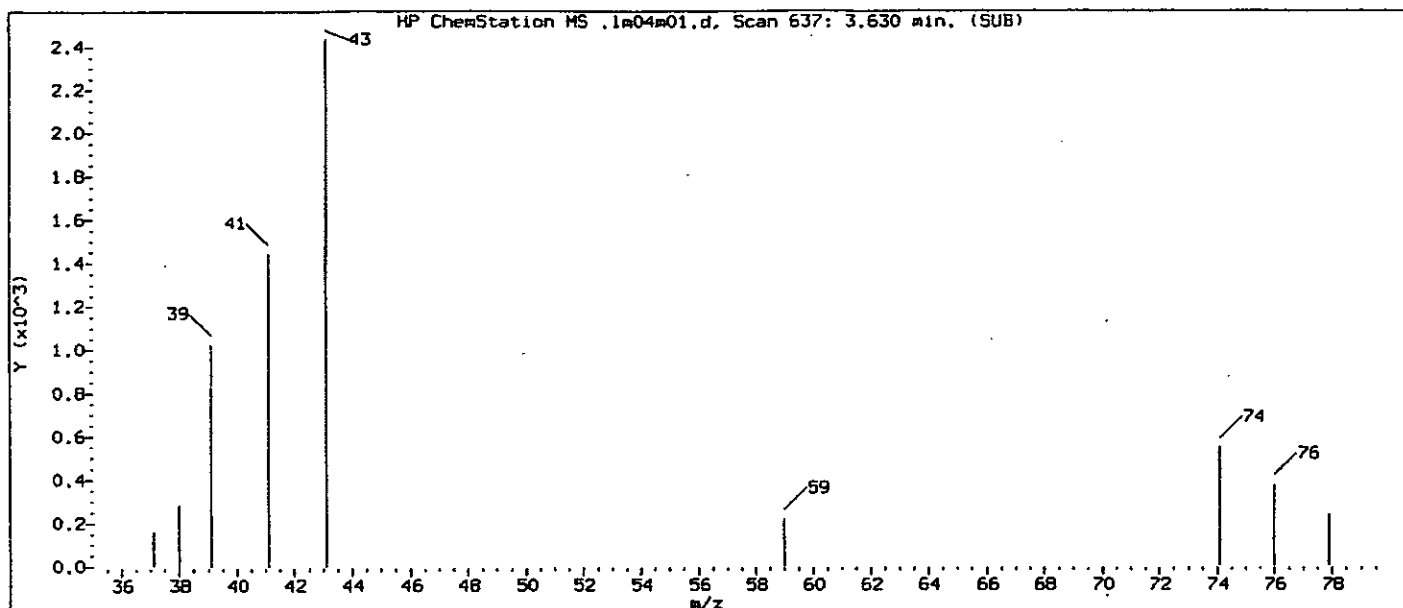
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: CBE01947 3/4/10

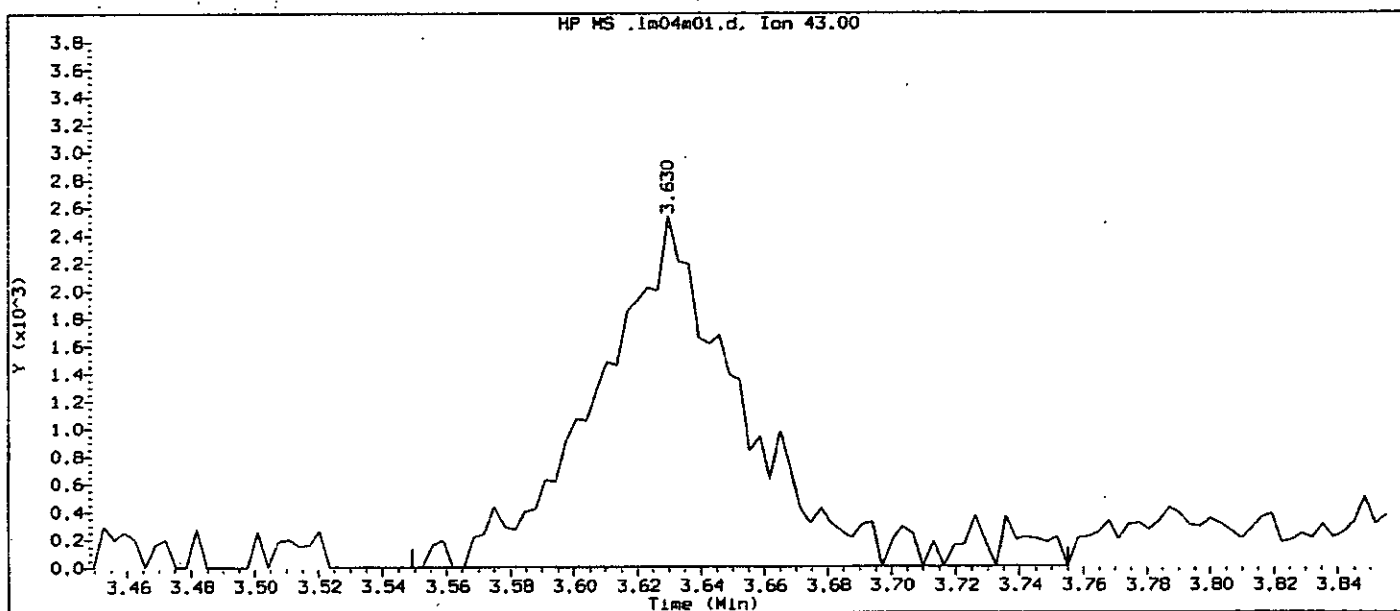
GC/MS audit/management approval: [Signature] 3/8/10

PTL85 8246

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04m01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:51 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 04-MAR-2010 15:51
Date, time and analyst ID of latest file update: 04-Mar-2010 15:51 cbs01947

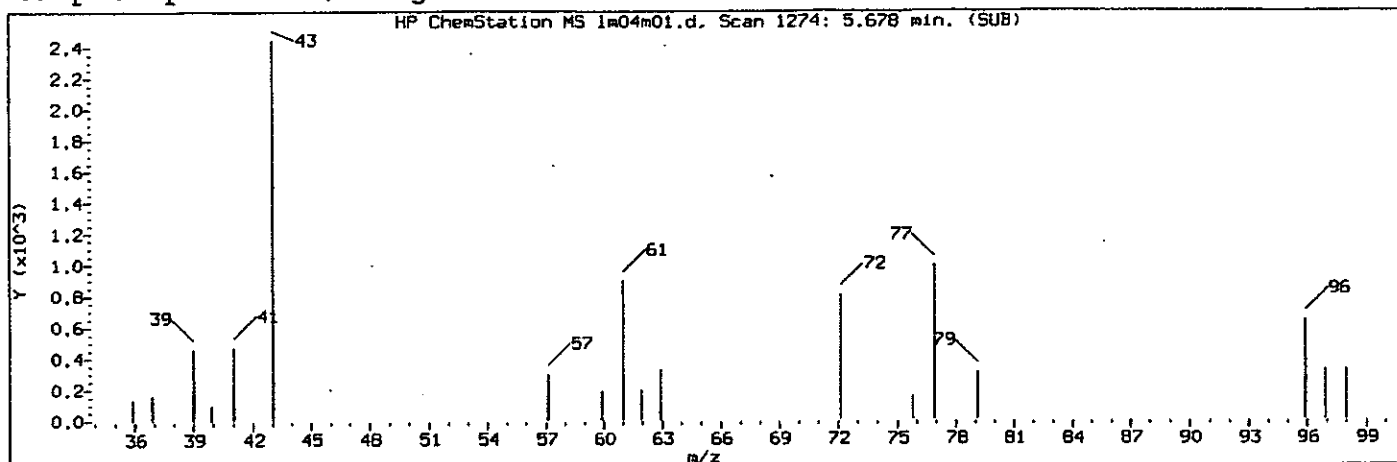
Sample Name: 1PPB MDL

Lab Sample ID: 1 PPB MDL

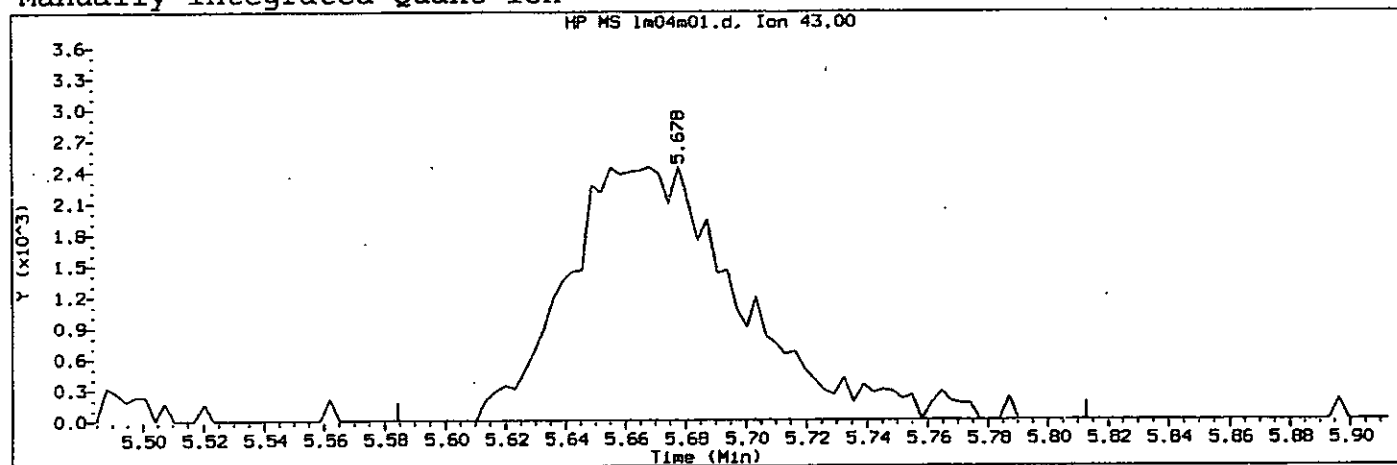
Compound Number : 26
Compound Name : Methyl Acetate
Scan Number : 637
Retention Time (minutes): 3.630
Quant Ion : 43
Area : 8337
Concentration (ug/L) : 1.0462
Integration start scan : 611 Integration stop scan: 675
Y at integration start : 0 Y at integration end: 0

PTL05 0227

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04m01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:51 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W-2MN
Calibration date and time: 04-MAR-2010 15:57
Date, time and analyst ID of latest file update: 04-Mar-2010 16:00 cbs01947

Sample Name: 1PPB MDL

Lab Sample ID: 1 PPB MDL

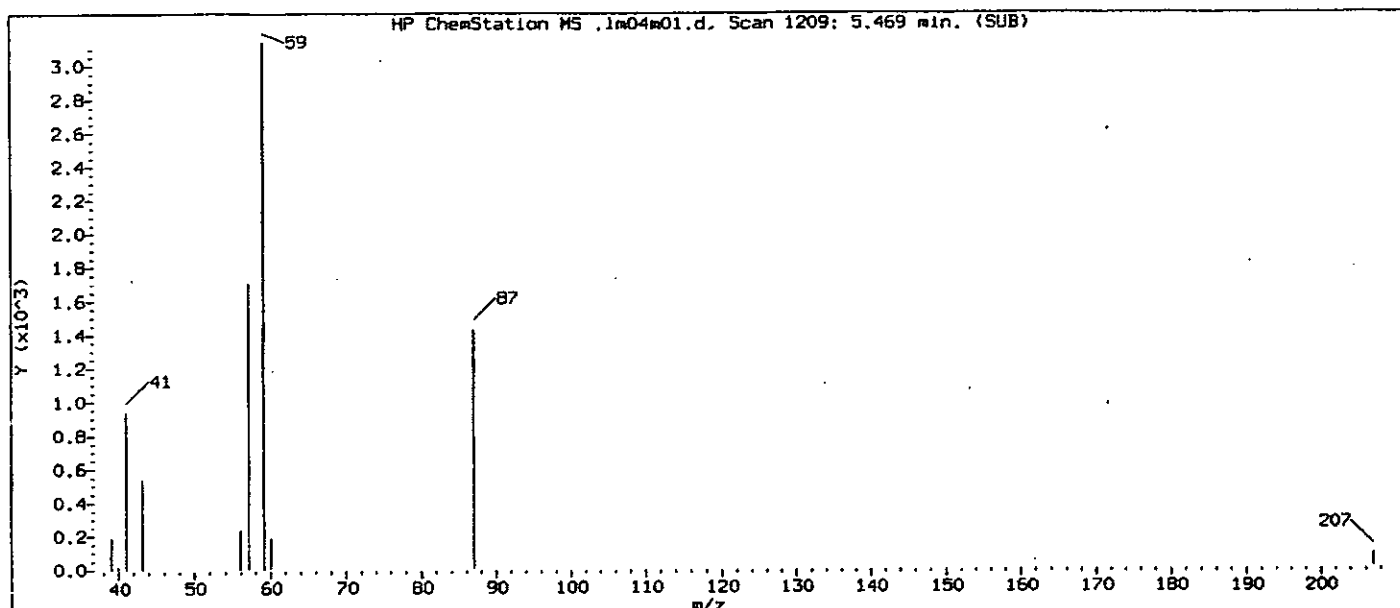
Compound Number : 47
Compound Name : 2-Butanone
Scan Number : 1274
Retention Time (minutes): 5.678
Quant Ion : 43
Area (flag) : 9929 M
Concentration (ug/L) : 1.7287
Integration start scan : 1244 Integration stop scan: 1315
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

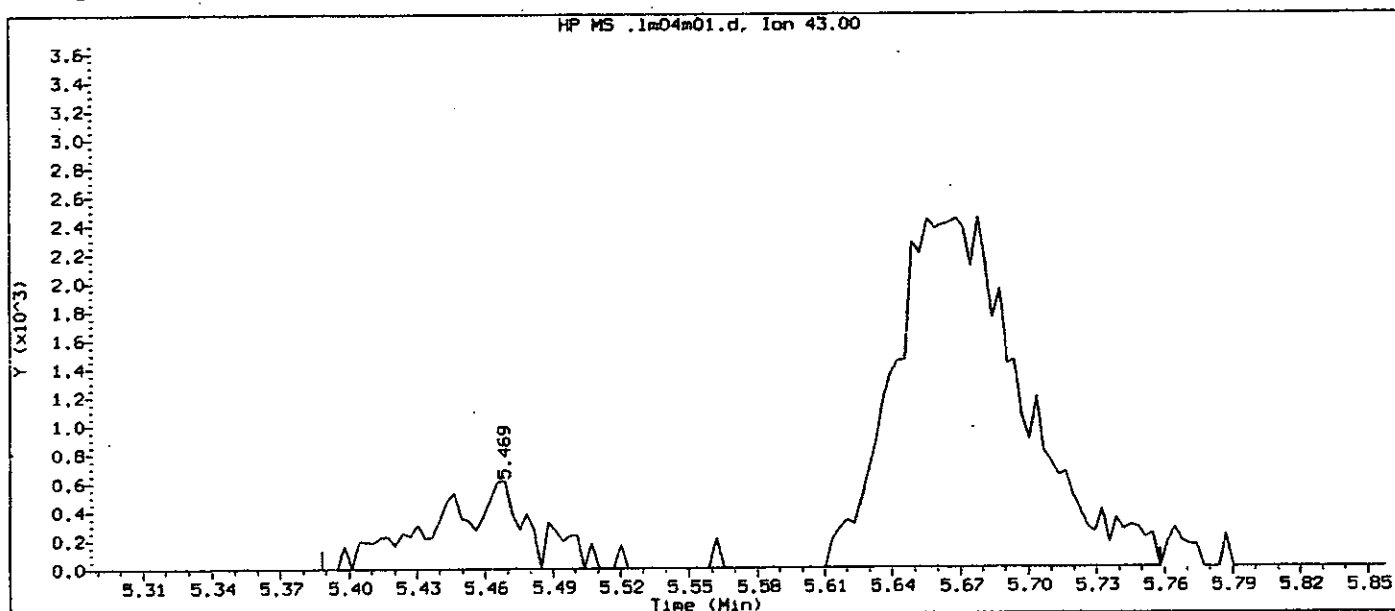
Analyst responsible for change: OBEQUA 3/4/10

GC/MS audit/management approval: [Signature] 3/8/10 PTL85 8248

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04m01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:51 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 04-MAR-2010 15:51
Date, time and analyst ID of latest file update: 04-Mar-2010 15:51 cbs01947

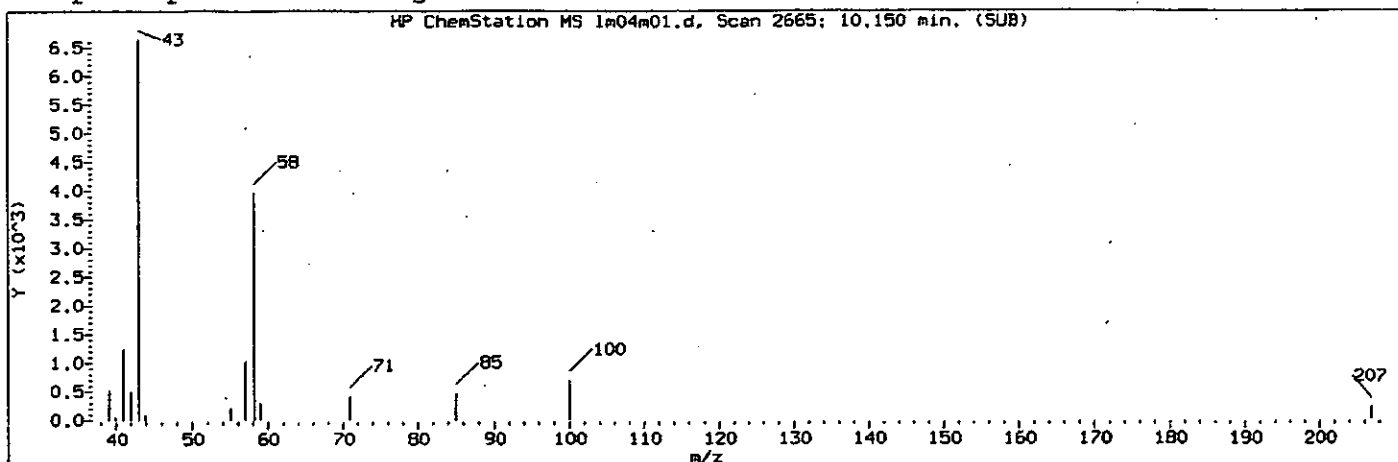
Sample Name: 1PPB MDL

Lab Sample ID: 1 PPB MDL

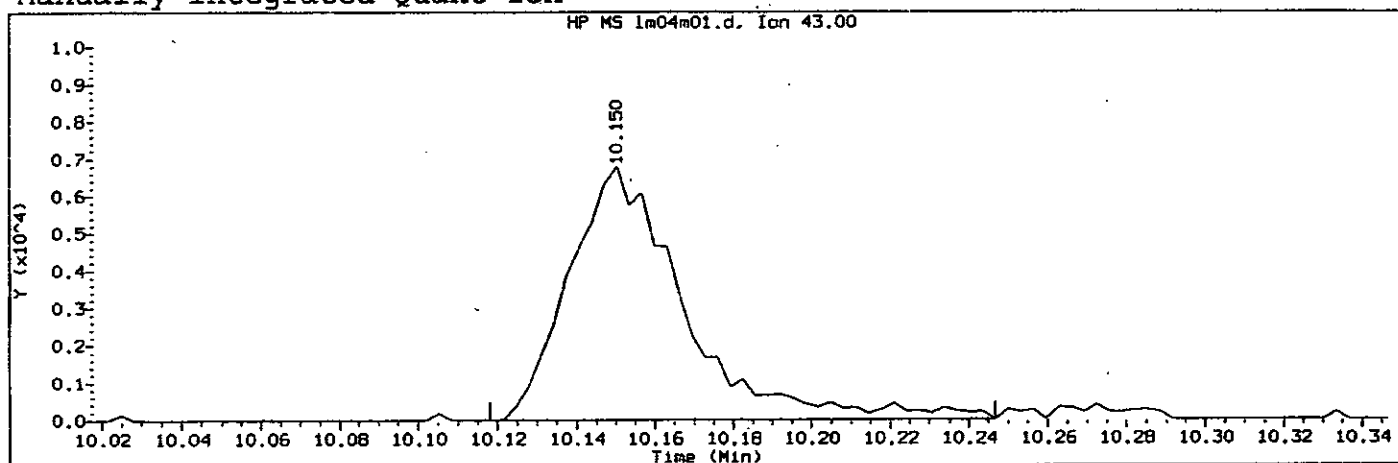
Compound Number : 47
Compound Name : 2-Butanone
Scan Number : 1209
Retention Time (minutes) : 5.469
Quant Ion : 43
Area : 11643
Concentration (ug/L) : 2.0270
Integration start scan : 1183 Integration stop scan: 1298
Y at integration start : 0 Y at integration end: 0

PTL85 8249

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04m01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:51 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W-2MN
Calibration date and time: 04-MAR-2010 15:57
Date, time and analyst ID of latest file update: 04-Mar-2010 16:00 cbs01947

Sample Name: 1PPB MDL

Lab Sample ID: 1 PPB MDL

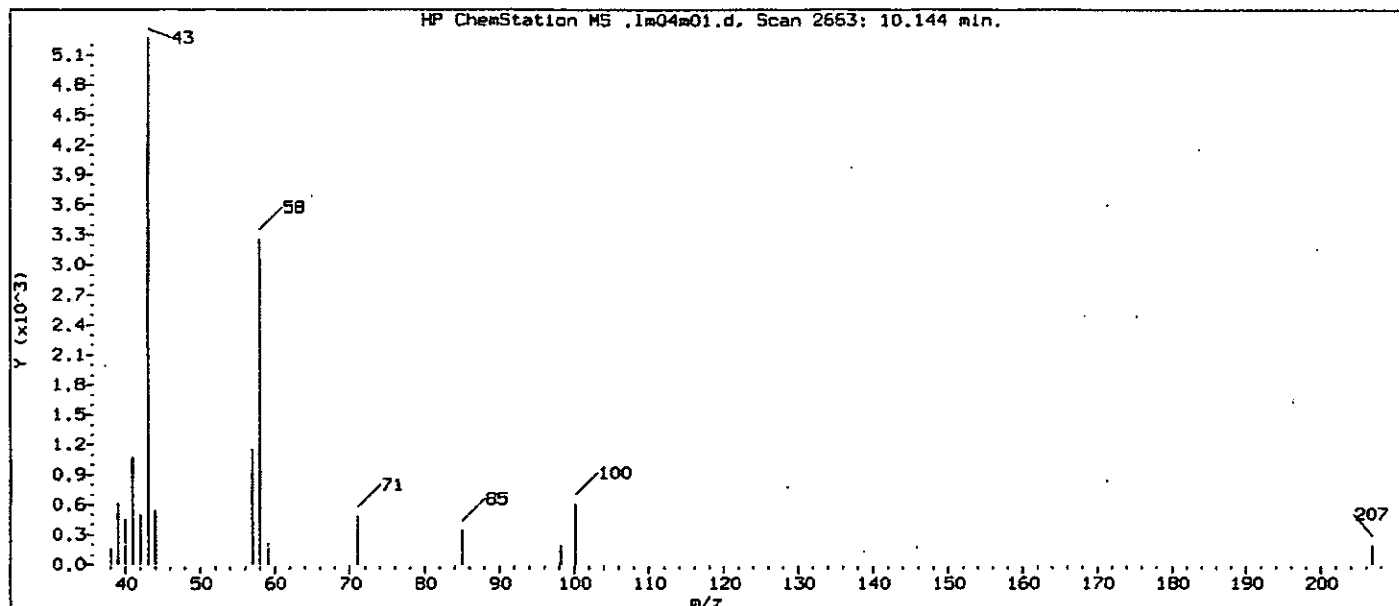
Compound Number : 100
Compound Name : 2-Hexanone
Scan Number : 2665
Retention Time (minutes) : 10.150
Quant Ion : 43
Area (flag) : 13749 M
Concentration (ug/L) : 1.2705
Integration start scan : 2654 Integration stop scan: 2694
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

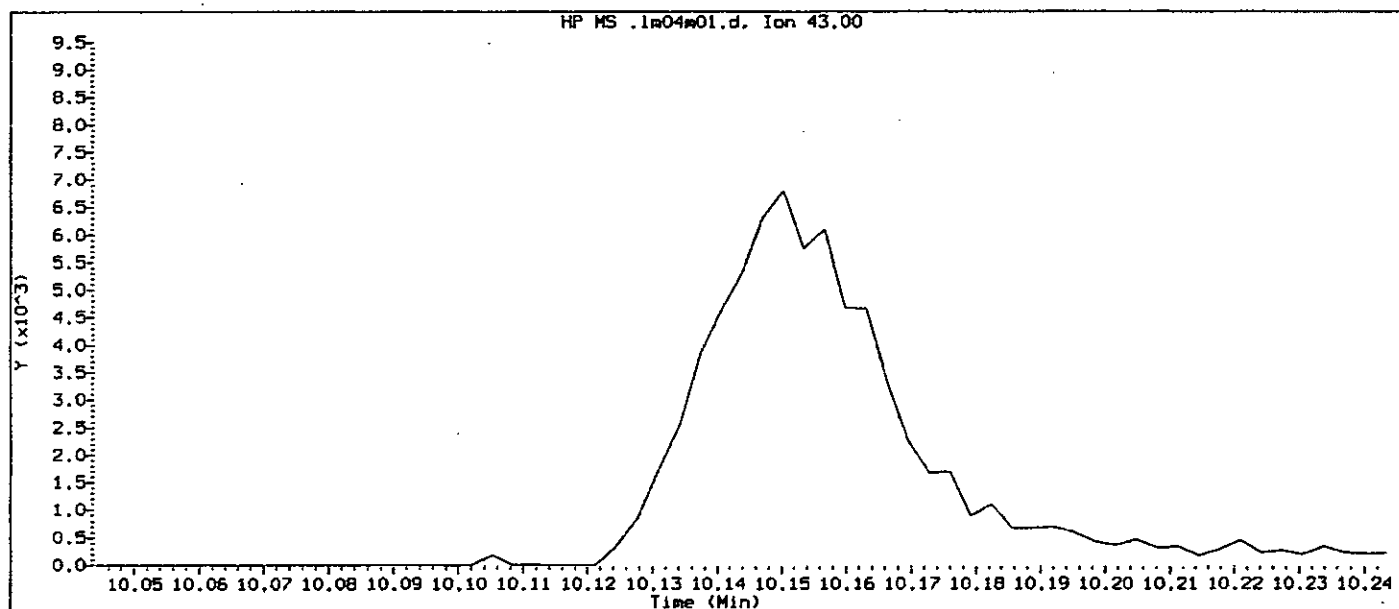
Analyst responsible for change: CBE01947 BKL/10

GC/MS audit/management approval: Paul 3/8/10 PTL05 8258

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04m01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:51 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 04-MAR-2010 15:51
Date, time and analyst ID of latest file update: 04-Mar-2010 15:51 cbs01947

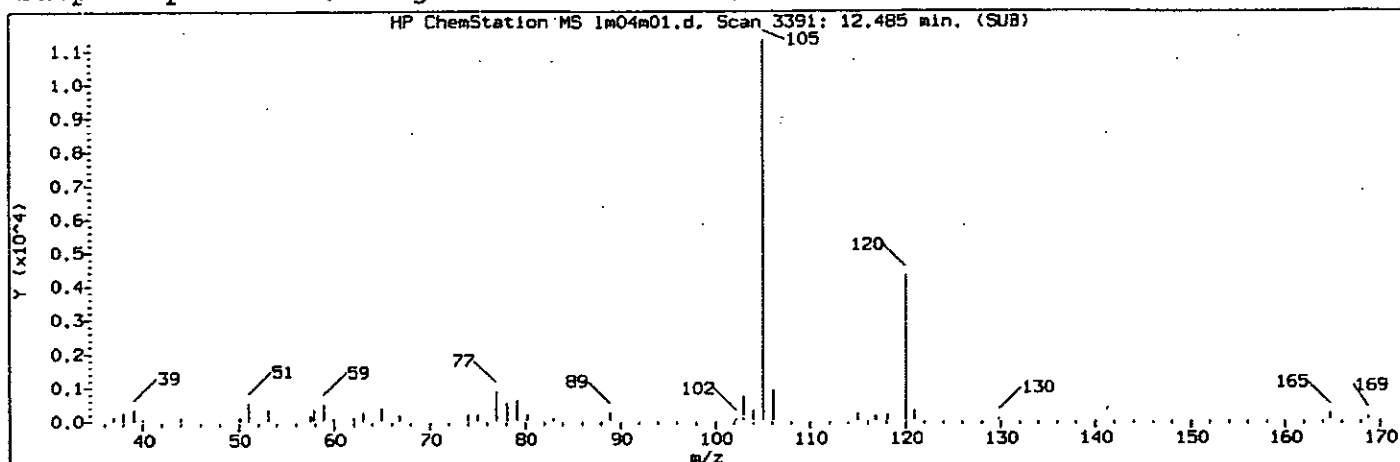
Sample Name: 1PPB MDL

Lab Sample ID: 1 PPB MDL

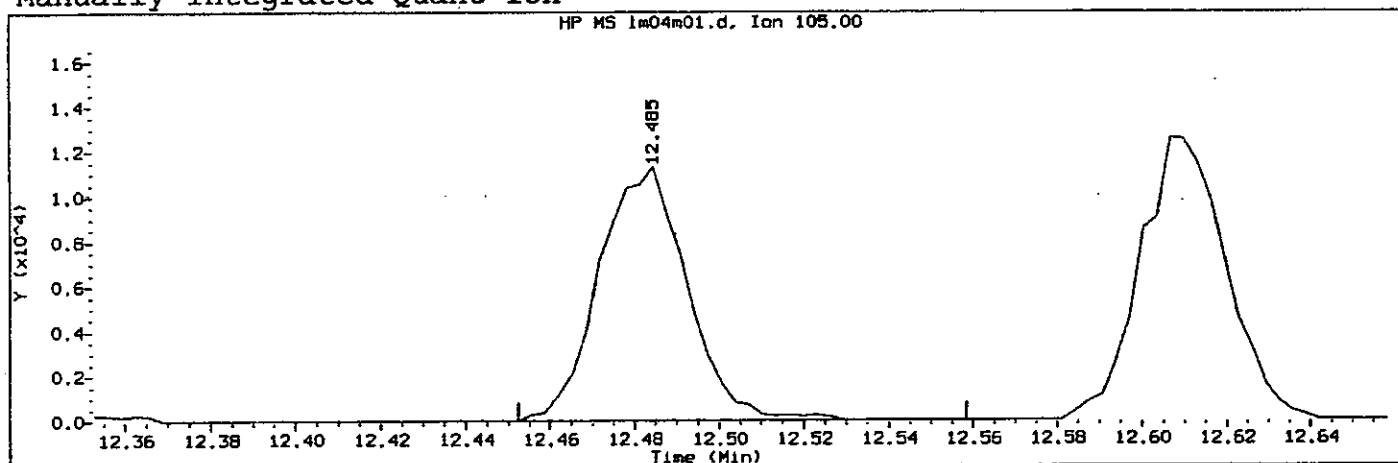
Compound Number : 100
Compound Name : 2-Hexanone
Expected RT (minutes) : 10.144
Quant Ion : 43

PTL05 0251

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04m01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:51 Analyst ID: CBE01947
Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W-2MN
Calibration date and time: 04-MAR-2010 15:57
Date, time and analyst ID of latest file update: 04-Mar-2010 16:00 cbs01947
Sample Name: 1PPB MDL Lab Sample ID: 1 PPB MDL

Compound Number : 133
Compound Name : 1,2,4-Trimethylbenzene
Scan Number : 3391
Retention Time (minutes): 12.485
Quant Ion : 105
Area (flag) : 16371 M
Concentration (ug/L) : 0.6401
Integration start scan : 3380 Integration stop scan: 3413
Y at integration start : 0 Y at integration end: 0

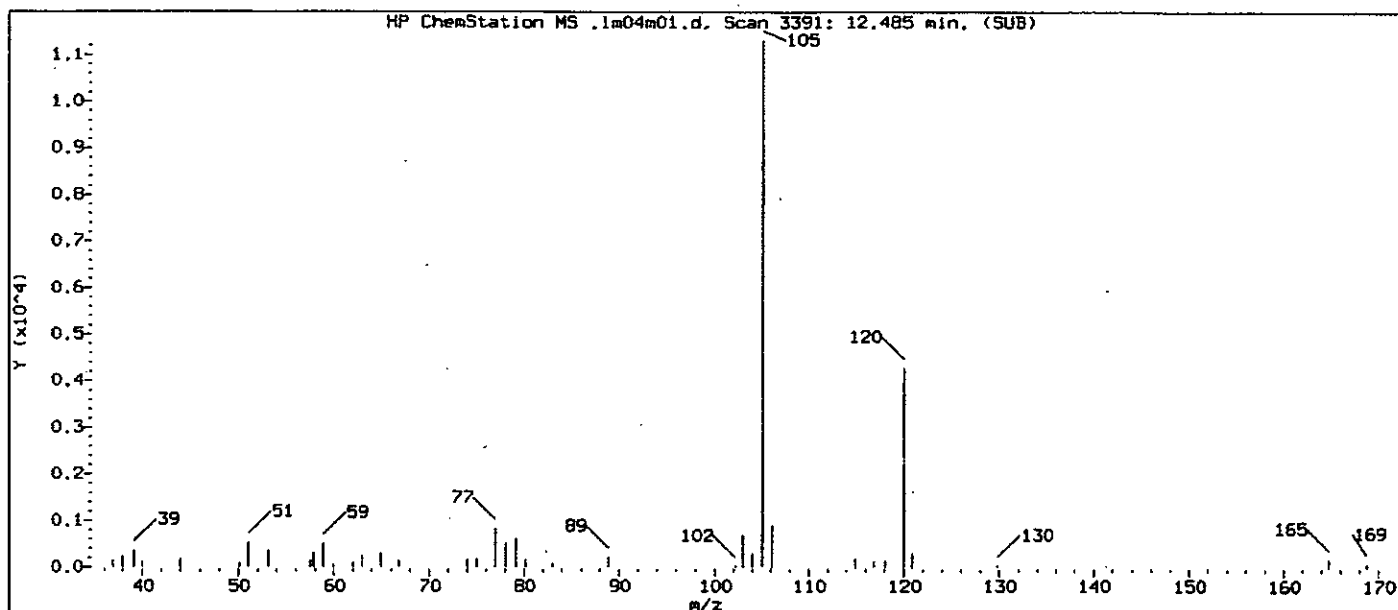
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: CBE01947 Buhlo

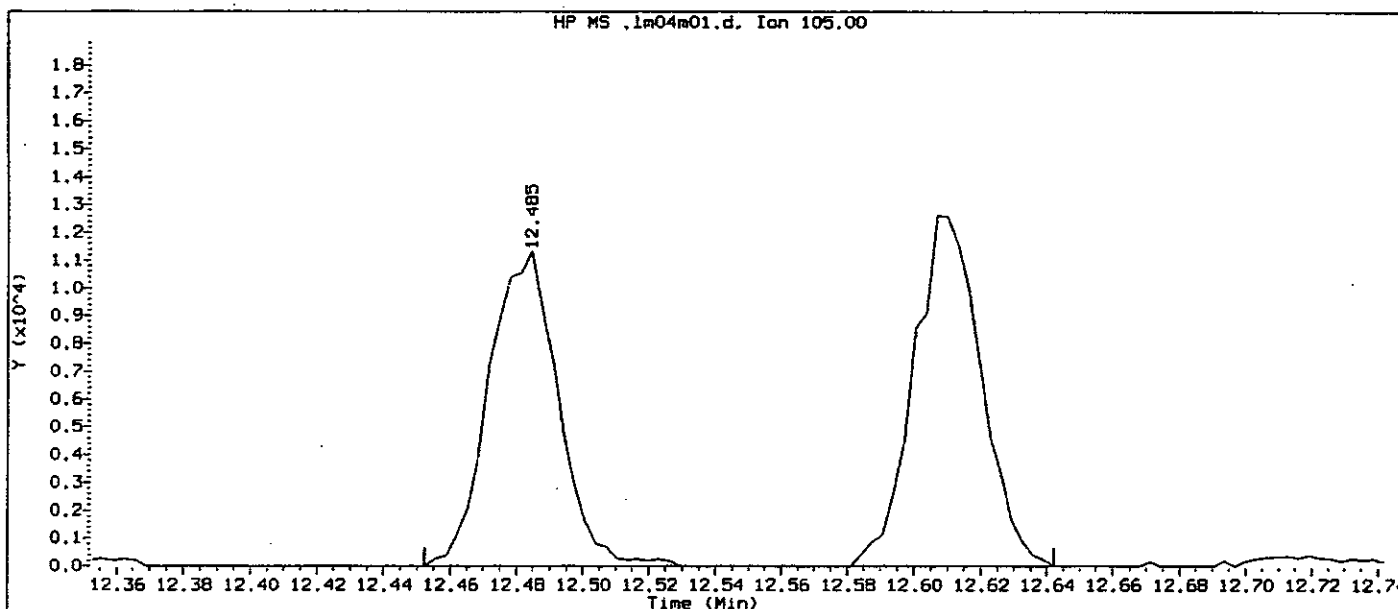
GC/MS audit/management approval: James 3/8/10

PTL85 8252

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/10mar04c.b/lm04m01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 14:51 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 04-MAR-2010 15:51
Date, time and analyst ID of latest file update: 04-Mar-2010 15:51 cbs01947

Sample Name: 1PPB MDL

Lab Sample ID: 1 PPB MDL

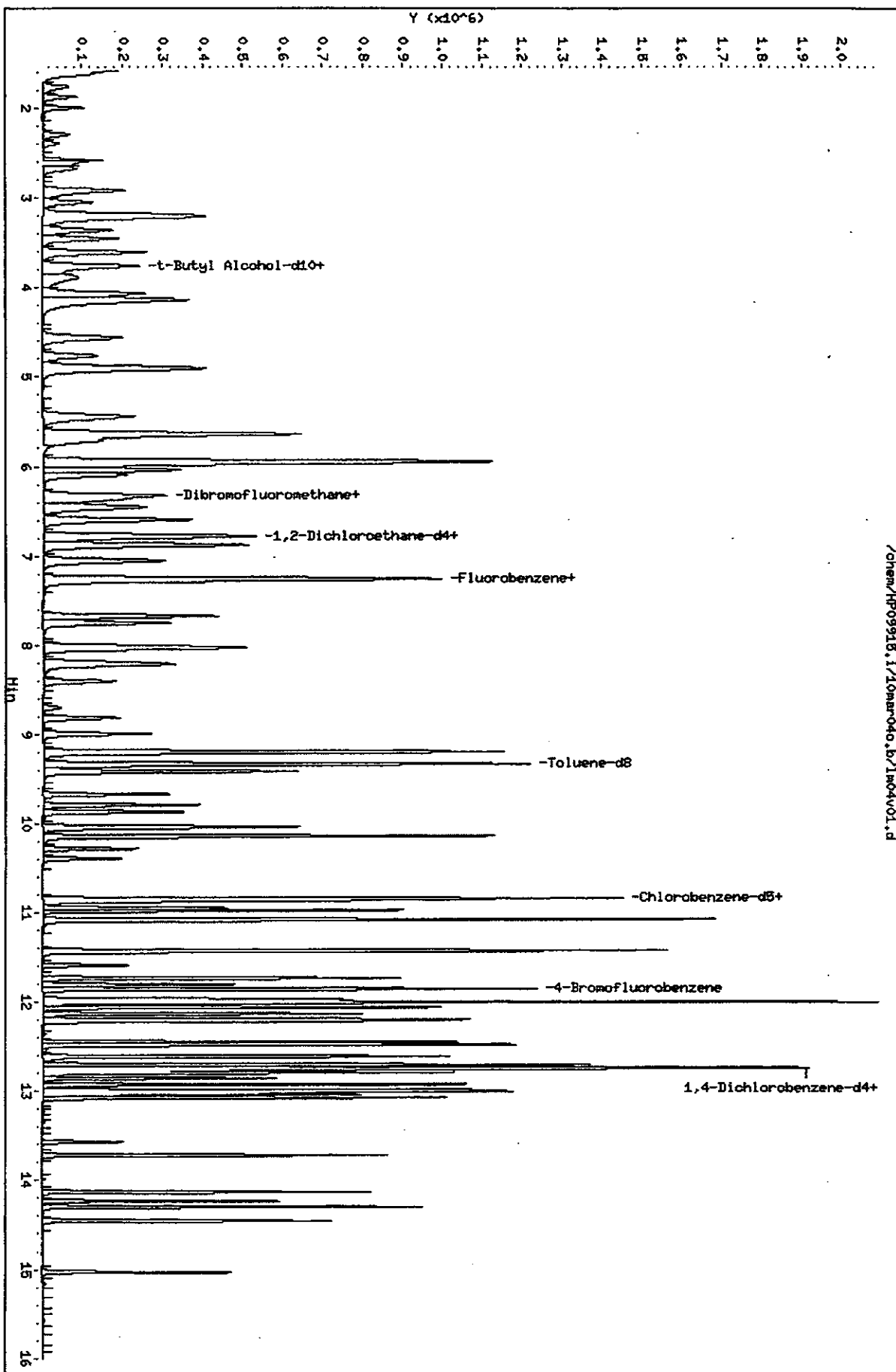
Compound Number : 133
Compound Name : 1,2,4-Trimethylbenzene
Scan Number : 3391
Retention Time (minutes): 12.485
Quant Ion : 105
Area : 34078
Concentration (ug/L) : 1.3325
Integration start scan : 3380 Integration stop scan: 3439
Y at integration start : 0 Y at integration end: 0

PTL85 8253

Data File: /chem/HP0991B.1/10mar04o.b/1m04v01.d
Date: 04-MAR-2010 15:09
Client ID: LCSLICV
Sample Info: LCSLICV\LCSLICV1131LC91;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP0991B.1
Operator: CBE01947
Column diameter: 0.28

/chem/HP0991B.1/10mar04o.b/1m04v01.d



CBE01947
03/11/10

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04v01.d
Injection date and time: 04-MAR-2010 15:59

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W-2MN
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 16:22 cbs01947

Sample Name: LCSLICV

Lab Sample ID: LCSLICV

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)	1.765	85	144056	15.825
3) Chloromethane	(1)	1.874	50	124453	21.440
4) Vinyl Chloride	(1)	1.996	62	123049	22.683
7) Bromomethane	(1)	2.295	94	59844	15.698
9) Chloroethane	(1)	2.392	64	50335	16.328
10) Dichlorofluoromethane	(1)	2.585	67	175015	20.045
11) Trichlorofluoromethane	(1)	2.678	101	199650	20.517
13) Ethyl Ether	(1)	2.916	59	90280	21.641
12) Freon 123a	(1)	2.929	67	110247	19.152
16) Acrolein	(4)	3.051	56	162970	82.173
17) 1,1-Dichloroethene	(1)	3.179	96	113365	22.341
18) Freon 113	(1)	3.215	101	122770	23.214
20) Acetone	(1)	3.215	43	435750	147.730
21) 2-Propanol	(4)	3.366	45	116307	148.570
23) Methyl Iodide	(1)	3.363	142	230238	21.744
24) Carbon Disulfide	(1)	3.450	76	386073	21.956
28) Allyl Chloride	(1)	3.601	41	205874	21.065
26) Methyl Acetate	(1)	3.614	43	154557	20.939
29) Methylene Chloride	(1)	3.755	84	134643	21.136
30) *t-Butyl Alcohol-d10	(4)	3.777	65	228663	250.000
31) t-Butyl Alcohol	(4)	3.887	59	243784	197.166
32) Acrylonitrile	(1)	4.067	53	371308	97.174
33) trans-1,2-Dichloroethene	(1)	4.134	96	128118	21.238
34) Methyl Tertiary Butyl Ether	(1)	4.147	73	418252	20.700
35) n-Hexane	(1)	4.559	57	199818	24.649
43) 1,2-Dichloroethene (total)	(1)		96	264132	42.496
37) 1,1-Dichloroethane	(1)	4.768	63	232627	21.017
40) di-Isopropyl Ether	(1)	4.896	45	464729	21.026
41) 2-Chloro-1,3-Butadiene	(1)	4.912	53	206559	22.245
42) Ethyl t-Butyl Ether	(1)	5.446	59	403507	20.351
44) cis-1,2-Dichloroethene	(1)	5.633	96	136014	21.257
47) 2-Butanone	(1)	5.646	43	773233	145.342
45) 2,2-Dichloropropane	(1)	5.642	77	167217	20.236
48) Propionitrile	(4)	5.720	54	234657	148.786

* = Compound is an internal standard.

PTL05 0255

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04v01.d
Injection date and time: 04-MAR-2010 15:59

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W-2MN
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 16:22 cbs01947

Sample Name: LCSLICV

Lab Sample ID: LCSLICV

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
49) Methacrylonitrile	(1)	5.951	67	597700	151.312
50) Bromochloromethane	(1)	5.974	128	66039	20.663
51) Tetrahydrofuran	(4)	6.041	71	132836	99.125
53) Chloroform	(1)	6.099	83	216948	20.289
56) 1,1,1-Trichloroethane	(1)	6.366	97	208047	20.702
57) Cyclohexane	(1)	6.453	56	232690	22.665
60) 1,1-Dichloropropene	(1)	6.594	75	177039	21.213
61) Carbon Tetrachloride	(1)	6.604	117	150786	19.873
63) Isobutyl Alcohol	(4)	6.771	41	216286	495.579
67) Benzene	(1)	6.877	78	523831	21.272
68) 1,2-Dichloroethane	(1)	6.890	62	182376	20.553
71) t-Amyl Methyl Ether	(1)	7.054	73	387468	20.338
72)*Fluorobenzene	(1)	7.256	96	1038489	50.000
73) n-Heptane	(1)	7.276	43	213772	24.536
75) n-Butanol	(4)	7.674	56	366844	993.788
76) Trichloroethene	(1)	7.755	95	133242	21.028
77) Methylcyclohexane	(1)	8.018	83	218380	21.304
79) 1,2-Dichloropropane	(1)	8.041	63	144879	21.012
80) Dibromomethane	(1)	8.186	93	92265	20.627
82) Methyl Methacrylate	(1)	8.221	69	131483	20.643
83) 1,4-Dioxane	(4)	8.227	88	60446	515.943
84) Bromodichloromethane	(1)	8.408	83	156102	20.472
85) 2-Nitropropane	(1)	8.697	41	36397	15.884
86) 2-Chloroethyl Vinyl Ether	(1)	8.816	63	111066	20.380
87) cis-1,3-Dichloropropene	(1)	8.996	75	204761	20.093
88) 4-Methyl-2-Pentanone	(1)	9.202	43	1052526	88.647
93) Toluene	(2)	9.417	92	318815	21.439
94) trans-1,3-Dichloropropene	(2)	9.671	75	191976	20.162
95) Ethyl Methacrylate	(2)	9.790	69	225436	21.371
96) 1,1,2-Trichloroethane	(2)	9.867	97	123876	21.069
97) Tetrachloroethene	(2)	10.031	166	137716	21.823
98) 1,3-Dichloropropane	(2)	10.047	76	224421	21.511
100) 2-Hexanone	(2)	10.141	43	799164	81.506
101) Dibromochloromethane	(2)	10.282	129	131842	21.037

* = Compound is an internal standard.

PTL05 8256

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04v01.d
Injection date and time: 04-MAR-2010 15:59

Instrument ID: HP09915.i
Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W-2MN
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 16:22 cbs01947

Sample Name: LCSLICV

Lab Sample ID: LCSLICV

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
103) 1,2-Dibromoethane	(2)	10.395	107	138971	20.864
104) *Chlorobenzene-d5	(2)	10.845	117	744459	50.000
105) Chlorobenzene	(2)	10.870	112	365231	21.484
106) 1,1,1,2-Tetrachloroethane	(2)	10.948	131	116327	19.986
107) Ethylbenzene	(2)	10.973	91	604644	21.268
108) m+p-Xylene	(2)	11.079	106	478047	44.005
112) Xylene (Total)	(2)		106	714806	66.359
110) o-Xylene	(2)	11.427	106	236759	22.354
111) Styrene	(2)	11.436	104	382220	21.650
113) Bromoform	(2)	11.591	173	92104	18.798
114) Isopropylbenzene	(2)	11.735	105	554837	21.137
117) Cyclohexanone	(4)	11.803	55	207370	497.898
121) 1,1,2,2-Tetrachloroethane	(3)	11.967	83	198564	20.583
122) Bromobenzene	(3)	11.980	156	150588	21.189
123) 1,2,3-Trichloropropane	(3)	11.999	110	58626	21.260
124) trans-1,4-Dichloro-2-Butene	(3)	12.009	53	306460	106.676
125) n-Propylbenzene	(3)	12.063	120	161939	20.928
127) 2-Chlorotoluene	(3)	12.134	126	140403	21.297
128) 1,3,5-Trimethylbenzene	(3)	12.195	120	233899	20.951
129) 4-Chlorotoluene	(3)	12.218	126	147034	21.035
131) tert-Butylbenzene	(3)	12.449	134	106004	20.557
132) Pentachloroethane	(3)	12.468	167	83772	19.392
133) 1,2,4-Trimethylbenzene	(3)	12.481	105	493806	20.866
134) sec-Butylbenzene	(3)	12.610	134	123872	20.951
135) 1,3-Dichlorobenzene	(3)	12.700	146	286862	20.940
136) p-Isopropyltoluene	(3)	12.713	134	147248	21.419
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	422499	50.000
139) i,4-Dichlorobenzene	(3)	12.761	146	303382	20.852
137) 1,2,3-Trimethylbenzene	(3)	12.796	120	219067	20.569
140) Benzyl Chloride	(3)	12.854	91	332030	18.636
141) 1,3-Diethylbenzene	(3)	12.925	119	302015	19.830
142) 1,4-Diethylbenzene	(3)	12.989	119	303731	20.253
144) n-Butylbenzene	(3)	13.005	92	261995	20.850
145) 1,2-Dichlorobenzene	(3)	13.034	146	269143	20.063

* = Compound is an internal standard.

PTL05 8257

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar04c.b/lm04v01.d Instrument ID: HP09915.i
Injection date and time: 04-MAR-2010 15:59 Analyst ID: CBE01947

Method used: /chem/HP09915.i/10mar04c.b/L8260W.m Sublist used: 8260W-2MN
Calibration date and time: 04-MAR-2010 12:18
Date, time and analyst ID of latest file update: 04-Mar-2010 16:22 cbs01947

Sample Name: LCSLICV

Lab Sample ID: LCSLICV

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
143) 1,2-Diethylbenzene	(3)	13.076	119	249159	20.180
146) 1,2-Dibromo-3-Chloropropane	(3)	13.568	75	40210	19.629
148) 1,2,4-Trichlorobenzene	(3)	14.128	180	214642	21.346
149) Hexachlorobutadiene	(3)	14.230	225	94580	21.248
150) Naphthalene	(3)	14.298	128	609320	20.746
152) 1,2,3-Trichlorobenzene	(3)	14.452	180	194791	20.908
54) \$Dibromofluoromethane	(1)	6.324	113	250778	49.291
64) \$1,2-Dichloroethane-d4	(1)	6.787	102	58170	49.564
90) \$Toluene-d8	(2)	9.337	98	1008982	51.062
119) \$4-Bromofluorobenzene	(2)	11.858	95	360560	48.924

\$ = Compound is a surrogate standard.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP09915 Calibration Date: 03/23/10 Time: 09:39

Lab File ID: lm23c01.d Init. Calib. Date(s): 03/04/10 03/04/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
=====	=====	=====	=====	=====	=====
Dichlorodifluoromethane	0.4383	0.4309	49.16	50	-2
# Chloromethane	0.2795	0.2279	40.77	50	-18 #
* Vinyl Chloride	0.2612	0.2280	43.65	50	-13 *
Bromomethane	0.1835	0.1689	46.00	50	-8
Chloroethane	0.1394	0.1230	43.93	50	-12
Trichlorofluoromethane	0.4685	0.4638	49.49	50	-1
Ethyl Ether	0.2008	0.1333	33.17	50	-34
Acrolein	2.1683	2.3523	542.41	500	8
* 1,1-Dichloroethene	0.2443	0.2473	50.62	50	1 *
Freon 113	0.2546	0.2791	54.80	50	10
Acetone	0.1420	0.0994	70.00	100	-30
2-Propanol	0.8559	0.6274	183.26	250	-27
Methyl Iodide	0.5098	0.5013	49.17	50	-2
Carbon Disulfide	0.8466	0.8806	52.01	50	4
Allyl Chloride	0.4706	0.4704	49.98	50	0
Methyl Acetate	0.3554	0.3562	50.12	50	0
Methylene Chloride	0.3067	0.3026	49.32	50	-1
t-Butyl Alcohol	1.3518	1.0770	199.17	250	-20
Acrylonitrile	0.1840	0.1687	45.86	50	-8
trans-1,2-Dichloroethene	0.2904	0.2856	49.18	50	-2
Methyl Tertiary Butyl Ether	0.9728	0.9073	46.63	50	-7
n-Hexane	0.3903	0.4434	56.80	50	14
1,2-Dichloroethene (total)	0.2993	0.2936	98.11	100	-2
# 1,1-Dichloroethane	0.5329	0.5406	50.72	50	1 #
di-Isopropyl Ether	1.0642	1.0133	47.61	50	-5
2-Chloro-1,3-Butadiene	0.4471	0.4446	49.72	50	-1
Ethyl t-Butyl Ether	0.9546	0.8687	45.50	50	-9
cis-1,2-Dichloroethene	0.3081	0.3015	48.93	50	-2
2-Butanone	0.2561	0.2128	83.08	100	-17
2,2-Dichloropropane	0.3979	0.3845	48.32	50	-3
Propionitrile	1.7243	1.9537	283.26	250	13
Methacrylonitrile	0.1902	0.1712	112.53	125	-10
Bromochloromethane	0.1539	0.1488	48.34	50	-3
Tetrahydrofuran	1.4651	1.6449	112.27	100	12
* Chloroform	0.5148	0.4994	48.50	50	-3 *
1,1,1-Trichloroethane	0.4839	0.4413	45.60	50	-9

PTL05 8259

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
 Maximum %Drift for CCC(*)=20%

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP09915 Calibration Date: 03/23/10 Time: 09:39

Lab File ID: lm23c01.d Init. Calib. Date(s): 03/04/10 03/04/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
Cyclohexane	0.4943	0.5131	51.90	50	4
Cyclohexane(mz 84)	0.3991	0.4196	52.57	50	5
Cyclohexane(mz 69)	0.1431	0.1482	51.79	50	4
1,1-Dichloropropene	0.4018	0.3914	48.70	50	-3
Carbon Tetrachloride	0.3653	0.3715	50.84	50	2
Isobutyl Alcohol	0.4771	0.4390	574.97	625	-8
Benzene	1.1856	1.1297	47.64	50	-5
1,2-Dichloroethane	0.4272	0.4117	48.18	50	-4
1,2-Dichloroethane(mz 98)	0.0366	0.0341	46.60	50	-7
t-Amyl Methyl Ether	0.9172	0.8235	44.89	50	-10
n-Heptane	0.4195	0.4379	52.20	50	4
n-Butanol	0.4036	0.3648	1129.73	1250	-10
Trichloroethene	0.3051	0.2970	48.68	50	-3
Methylcyclohexane	0.4935	0.5014	50.80	50	2
Methylcyclohexane(mz98)	0.2221	0.2265	50.97	50	2
* 1,2-Dichloropropane	0.3320	0.3195	48.11	50	-4 *
Dibromomethane	0.2154	0.2110	48.99	50	-2
Methyl Methacrylate	0.3067	0.2791	45.51	50	-9
1,4-Dioxane	0.1281	0.0778	379.67	625	-39
Bromodichloromethane	0.3671	0.3620	49.31	50	-1
2-Nitropropane	0.1103	0.0957	86.79	100	-13
2-Chloroethyl Vinyl Ether	0.2624	0.2495	47.54	50	-5
cis-1,3-Dichloropropene	0.4906	0.4744	48.35	50	-3
4-Methyl-2-Pentanone	0.5717	0.4368	76.41	100	-24
* Toluene	0.9987	0.9331	46.71	50	-7 *
trans-1,3-Dichloropropene	0.6395	0.6285	49.14	50	-2
Ethyl Methacrylate	0.7085	0.6717	47.40	50	-5
1,1,2-Trichloroethane	0.3949	0.3771	47.75	50	-5
Tetrachloroethene	0.4238	0.4199	49.53	50	-1
1,3-Dichloropropane	0.7007	0.6728	48.01	50	-4
2-Hexanone	0.6585	0.4603	69.89	100	-30
Dibromochloromethane	0.4209	0.4215	50.07	50	0
1,2-Dibromoethane	0.4473	0.4312	48.20	50	-4
# Chlorobenzene	1.1418	1.0980	48.08	50	-4 #
1,1,1,2-Tetrachloroethane	0.3909	0.3881	49.64	50	-1
* Ethylbenzene	1.9094	1.9209	50.30	50	1 *

PTL05 0260

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID: HP09915 Calibration Date: 03/23/10 Time: 09:39
 Lab File ID: lm23c01.d Init. Calib. Date(s): 03/04/10 03/04/10
 Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
=====	=====	=====	=====	=====	=====
m+p-Xylene	0.7296	0.7086	97.11	100	-3
Xylene (Total)	0.7235	0.7042	146.00	150	-3
o-Xylene	0.7113	0.6955	48.88	50	-2
Styrene	1.1857	1.1426	48.18	50	-4
# Bromoform	0.3291	0.3172	48.19	50	-4 #
Isopropylbenzene	1.7629	1.7826	50.56	50	1
Cyclohexanone	0.4554	0.3550	487.26	625	-22
# 1,1,2,2-Tetrachloroethane	1.1417	1.0862	47.57	50	-5 #
Bromobenzene	0.8411	0.8267	49.15	50	-2
1,2,3-Trichloropropane	0.3263	0.3216	49.27	50	-1
trans-1,4-Dichloro-2-Butene	0.3400	0.3282	120.68	125	-3
n-Propylbenzene	0.9157	0.9099	49.68	50	-1
2-Chlorotoluene	0.7802	0.8034	51.49	50	3
4-Chlorotoluene	0.8272	0.8134	49.17	50	-2
tert-Butylbenzene	0.6102	0.6195	50.76	50	2
Pentachloroethane	0.5112	0.5311	51.94	50	4
1,2,4-Trimethylbenzene	2.8007	2.8768	51.36	50	3
sec-Butylbenzene	0.6997	0.7285	52.05	50	4
1,3-Dichlorobenzene	1.6212	1.5848	48.88	50	-2
p-Isopropyltoluene	0.8136	0.8224	50.54	50	1
1,4-Dichlorobenzene	1.7218	1.6578	48.14	50	-4
1,2,3-Trimethylbenzene	1.2604	1.2612	50.03	50	0
Benzyl Chloride	2.1085	2.1311	50.54	50	1
1,3-Diethylbenzene	1.8024	1.7922	49.72	50	-1
1,4-Diethylbenzene	1.7748	1.7392	49.00	50	-2
n-Butylbenzene	1.4870	1.4772	49.67	50	-1
1,2-Dichlorobenzene	1.5876	1.5161	47.75	50	-5
1,2-Diethylbenzene	1.4612	1.4234	48.71	50	-3
1,2-Dibromo-3-Chloropropane	0.2424	0.2340	48.26	50	-3
1,2,4-Trichlorobenzene	1.1900	1.1096	46.62	50	-7
Hexachlorobutadiene	0.5268	0.5262	49.95	50	0
Naphthalene	3.4758	3.3081	47.59	50	-5
1,2,3-Trichlorobenzene	1.1025	1.0186	46.19	50	-8
=====	=====	=====	=====	=====	=====
Dibromofluoromethane	0.2450	0.2553	52.12	50	4
Dibromofluoromethane(mz111)	0.2516	0.2620	52.06	50	4

PTL05 0261

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
 Maximum %Drift for CCC(*)=20% ---

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP09915 Calibration Date: 03/23/10 Time: 09:39

Lab File ID: lm23c01.d Init. Calib. Date(s): 03/04/10 03/04/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4	0.0565	0.0572	50.65	50	1
1,2-Dichloroethane-d4 (mz65)	0.2895	0.2976	51.40	50	3
1,2-Dichloroethane-d4 (mz104)	0.0361	0.0366	50.75	50	1
Toluene-d8	1.3271	1.3418	50.55	50	1
Toluene-d8 (mz100)	0.8523	0.8582	50.34	50	1
4-Bromofluorobenzene	0.4950	0.4951	50.01	50	0
4-Bromofluorobenzene (mz174)	0.4195	0.4148	49.43	50	-1

Average %Drift 6

PTL85 826Z

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

Lancaster Laboratories
Continuing Calibration Internal Standard Check

Initial Calibration Standards:

/chem/HP09915.i/10mar04c.b/lm04i07.d
/chem/HP09915.i/10mar04c.b/lm04i05.d
/chem/HP09915.i/10mar04c.b/lm04i04.d
/chem/HP09915.i/10mar04c.b/lm04i03.d
/chem/HP09915.i/10mar04c.b/lm04i02.d
/chem/HP09915.i/10mar04c.b/lm04i01.d

File /chem/HP09915.i/10mar04c.b/lm04i03.d is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem/HP09915.i/10mar23a.b/lm23c01.d

RT Summary

File ID:

=====

Internal Standard Name	lm23c01.d	ICAL RT	In Spec
t-Butyl Alcohol-d10	3.774	3.793	Yes
Fluorobenzene	7.260	7.272	Yes
Chlorobenzene-d5	10.845	10.845	Yes
1,4-Dichlorobenzene-d4	12.745	12.742	Yes

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

Area Summary

File ID:

=====

Internal Standard Name	lm23c01.d	ICAL Area	Low Limit	High Limit	In Spec
t-Butyl Alcohol-d10	171318	260195	130098	520390	Yes
Fluorobenzene	1057099	1188208	594104	2376416	Yes
Chlorobenzene-d5	758455	876148	438074	1752296	Yes
1,4-Dichlorobenzene-d4	433354	502795	251398	1005590	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

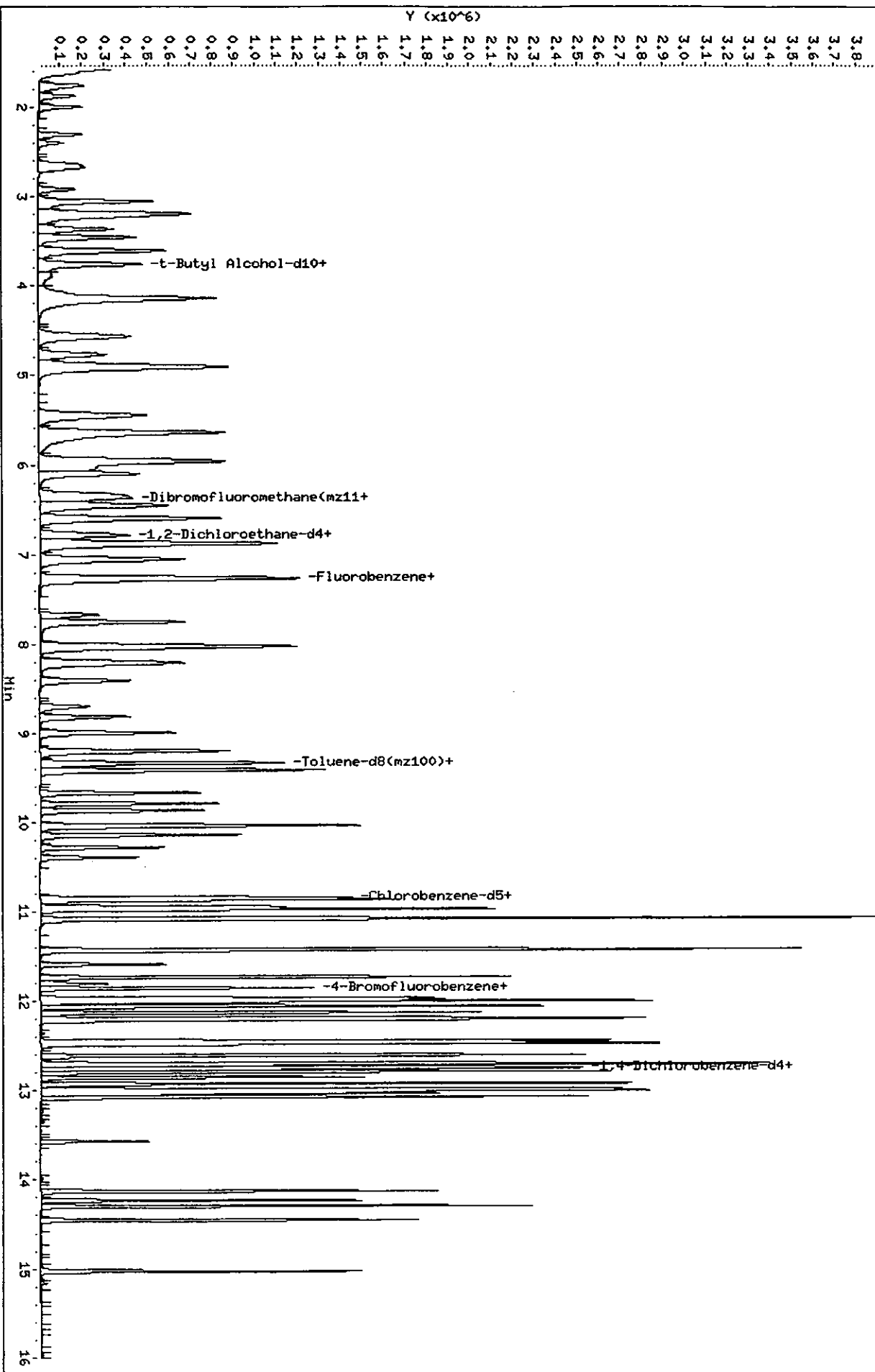
PTL05 0263

Comments: _____

Data File: /chem/HP09915.i/10mar23a.b/1m23c01.d
Date : 23-MAR-2010 09:39
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;2;:::;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: LCP00895
Column diameter: 0.25

/chem/HP09915.i/10mar23a.b/1m23c01.d



11-5-26-10
15800-10

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23c01.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 09:39 Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar20a.b/L8260W.m Sublist used: 8260WI-2MNFRT
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 10:53 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)	1.755	85	455487	49.157
3) Chloromethane	(1)	1.877	50	240897	40.770
4) Vinyl Chloride	(1)	1.996	62	241035	43.650
7) Bromomethane	(1)	2.305	94	178498	45.999
9) Chloroethane	(1)	2.398	64	130031	43.934
11) Trichlorofluoromethane	(1)	2.675	101	490249	49.494
13) Ethyl Ether	(1)	2.916	59	140864	33.172
16) Acrolein	(4)	3.054	56	805967	542.414
17) 1,1-Dichloroethene	(1)	3.189	96	261449	50.618
18) Freon 113	(1)	3.215	101	295010	54.799
20) Acetone	(1)	3.215	43	210185	70.004
21) 2-Propanol	(4)	3.366	45	107483	183.257
23) Methyl Iodide	(1)	3.369	142	529947	49.169
24) Carbon Disulfide	(1)	3.459	76	930848	52.006
28) Allyl Chloride	(1)	3.604	41	497243	49.983
26) Methyl Acetate	(1)	3.617	43	376560	50.118
29) Methylene Chloride	(1)	3.758	84	319829	49.322
30)*t-Butyl Alcohol-d10	(4)	3.774	65	171318	250.000
31) t-Butyl Alcohol	(4)	3.887	59	184502	199.168
32) Acrylonitrile	(1)	4.073	53	178367	45.858
33) trans-1,2-Dichloroethene	(1)	4.141	96	301958	49.175
34) Methyl Tertiary Butyl Ether	(1)	4.147	73	959106	46.632
35) n-Hexane	(1)	4.565	57	468705	56.800
43) 1,2-Dichloroethene (total)	(1)		96	620672	98.109
37) 1,1-Dichloroethane	(1)	4.768	63	571508	50.724
40) di-Isopropyl Ether	(1)	4.896	45	1071168	47.610
41) 2-Chloro-1,3-Butadiene	(1)	4.912	53	469951	49.719
42) Ethyl t-Butyl Ether	(1)	5.446	59	918287	45.500
44) cis-1,2-Dichloroethene	(1)	5.639	96	318714	48.934
47) 2-Butanone	(1)	5.646	43	449919	83.081
45) 2,2-Dichloropropane	(1)	5.649	77	406440	48.320
48) Propionitrile	(4)	5.723	54	334707	283.260
49) Methacrylonitrile	(1)	5.951	67	452476	112.531
50) Bromochloromethane	(1)	5.977	128	157279	48.345

PTL05 0265

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23c01.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 09:39 Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar20a.b/L8260W.m Sublist used: 8260WI-2MNFRT
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 10:53 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
51) Tetrahydrofuran	(4)	6.041	71	112719	112.268
53) Chloroform	(1)	6.102	83	527870	48.498
56) 1,1,1-Trichloroethane	(1)	6.369	97	466502	45.602
57) Cyclohexane	(1)	6.462	56	542401	51.901
59) Cyclohexane (mz 84)	(1)	6.456	84	443538	52.567
58) Cyclohexane (mz 69)	(1)	6.459	69	156621	51.786
60) 1,1-Dichloropropene	(1)	6.600	75	413696	48.697
61) Carbon Tetrachloride	(1)	6.604	117	392673	50.841
63) Isobutyl Alcohol	(4)	6.768	41	188004	574.969
67) Benzene	(1)	6.880	78	1194167	47.639
68) 1,2-Dichloroethane	(1)	6.893	62	435223	48.184
69) 1,2-Dichloroethane (mz 98)	(1)	6.893	98	36065	46.604
71) t-Amyl Methyl Ether	(1)	7.057	73	870471	44.887
72) *Fluorobenzene	(1)	7.260	96	1057099	50.000
73) n-Heptane	(1)	7.282	43	462956	52.200
75) n-Butanol	(4)	7.674	56	312443	1129.735
76) Trichloroethene	(1)	7.758	95	313968	48.677
77) Methylcyclohexane	(1)	8.025	83	530037	50.798
78) Methylcyclohexane (mz98)	(1)	8.025	98	239397	50.972
79) 1,2-Dichloropropane	(1)	8.044	63	337707	48.115
80) Dibromomethane	(1)	8.192	93	223085	48.995
82) Methyl Methacrylate	(1)	8.224	69	295057	45.508
83) 1,4-Dioxane	(4)	8.227	88	33326	379.680
84) Bromodichloromethane	(1)	8.411	83	382706	49.306
85) 2-Nitropropane	(1)	8.700	41	202422	86.786
86) 2-Chloroethyl Vinyl Ether	(1)	8.816	63	263730	47.540
87) cis-1,3-Dichloropropene	(1)	8.999	75	501503	48.347
88) 4-Methyl-2-Pentanone	(1)	9.202	43	923547	76.415
93) Toluene	(2)	9.420	92	707715	46.713
94) trans-1,3-Dichloropropene	(2)	9.671	75	476727	49.143
95) Ethyl Methacrylate	(2)	9.793	69	509439	47.402
96) 1,1,2-Trichloroethane	(2)	9.870	97	285999	47.747
97) Tetrachloroethene	(2)	10.034	166	318451	49.532
98) 1,3-Dichloropropane	(2)	10.050	76	510257	48.007

PTL05 8266

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23c01.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 09:39 Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar20a.b/L8260W.m Sublist used: 8260WI-2MNFRT
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 10:53 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
100) 2-Hexanone	(2)	10.144	43	698186	69.893
101) Dibromochloromethane	(2)	10.282	129	319721	50.074
103) 1,2-Dibromoethane	(2)	10.395	107	327058	48.197
104) *Chlorobenzene-d5	(2)	10.845	117	758455	50.000
105) Chlorobenzene	(2)	10.874	112	832805	48.084
106) 1,1,1,2-Tetrachloroethane	(2)	10.948	131	294335	49.635
107) Ethylbenzene	(2)	10.976	91	1456951	50.303
108) m+p-Xylene	(2)	11.083	106	1074836	97.114
112) Xylene (Total)	(2)		106	1602308	145.997
110) o-Xylene	(2)	11.427	106	527471	48.883
111) Styrene	(2)	11.436	104	866576	48.180
113) Bromoform	(2)	11.591	173	240546	48.188
114) Isopropylbenzene	(2)	11.735	105	1352008	50.557
117) Cyclohexanone	(4)	11.803	55	152046	487.263
121) 1,1,2,2-Tetrachloroethane	(3)	11.964	83	470697	47.569
122) Bromobenzene	(3)	11.983	156	358261	49.148
123) 1,2,3-Trichloropropane	(3)	12.002	110	139370	49.275
124) trans-1,4-Dichloro-2-Butene	(3)	12.009	53	355589	120.677
125) n-Propylbenzene	(3)	12.063	120	394308	49.681
127) 2-Chlorotoluene	(3)	12.134	126	348156	51.487
129) 4-Chlorotoluene	(3)	12.214	126	352500	49.166
131) tert-Butylbenzene	(3)	12.449	134	268468	50.760
132) Pentachloroethane	(3)	12.465	167	230137	51.940
133) 1,2,4-Trimethylbenzene	(3)	12.484	105	1246678	51.359
134) sec-Butylbenzene	(3)	12.613	134	315678	52.053
135) 1,3-Dichlorobenzene	(3)	12.697	146	686765	48.876
136) p-Isopropyltoluene	(3)	12.713	134	356400	50.544
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	433354	50.000
139) 1,4-Dichlorobenzene	(3)	12.761	146	718418	48.142
137) 1,2,3-Trimethylbenzene	(3)	12.796	120	546547	50.031
140) Benzyl Chloride	(3)	12.854	91	923537	50.536
141) 1,3-Diethylbenzene	(3)	12.928	119	776666	49.718
142) 1,4-Diethylbenzene	(3)	12.989	119	753675	48.996
144) n-Butylbenzene	(3)	13.009	92	640161	49.670

PTL05 8267

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23c01.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 09:39 Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar20a.b/L8260W.m Sublist used: 8260WI-2MNFRT
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 10:53 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
145) 1,2-Dichlorobenzene	(3)	13.034	146	657019	47.750
143) 1,2-Diethylbenzene	(3)	13.076	119	616830	48.708
146) 1,2-Dibromo-3-Chloropropane	(3)	13.568	75	101397	48.260
148) 1,2,4-Trichlorobenzene	(3)	14.131	180	480829	46.620
149) Hexachlorobutadiene	(3)	14.234	225	228040	49.948
150) Naphthalene	(3)	14.298	128	1433586	47.587
152) 1,2,3-Trichlorobenzene	(3)	14.452	180	441409	46.193
54) \$Dibromofluoromethane	(1)	6.324	113	269928	52.121
55) \$Dibromofluoromethane (mz111)	(1)	6.327	111	276941	52.064
64) \$1,2-Dichloroethane-d4	(1)	6.793	102	60506	50.647
65) \$1,2-Dichloroethane-d4 (mz65)	(1)	6.793	65	314631	51.398
66) \$1,2-Dichloroethane-d4 (mz104)	(1)	6.793	104	38704	50.748
90) \$Toluene-d8	(2)	9.340	98	1017667	50.552
89) \$Toluene-d8 (mz100)	(2)	9.340	100	650883	50.343
119) \$4-Bromofluorobenzene	(2)	11.857	95	375489	50.009
118) \$4-Bromofluorobenzene (mz174)	(2)	11.857	174	314577	49.432

\$ = Compound is a surrogate standard.

Raw QC Data

Data File: /chem/HP09915.i/10mar04c,b/lm04t03.d

Page 1

Date : 04-MAR-2010 11:54

Client ID: BFB FEB26-10

Instrument: HP09915.i

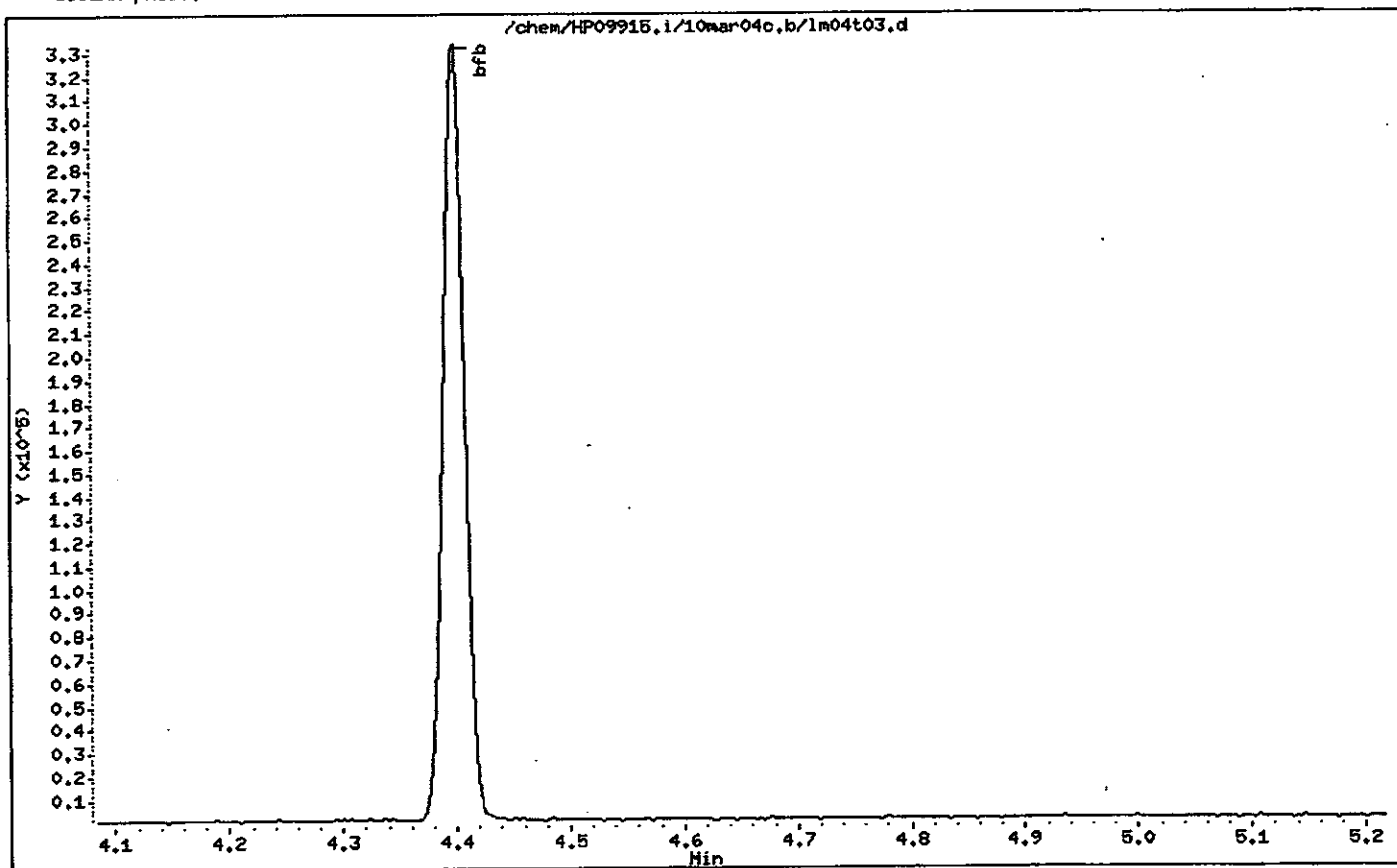
Sample Info: BFB FEB26-10;5ONG BFB;

Operator: CBE01947

Column phase: DB-624

Column diameter: 0.25

CBE01947
3/4/10



PTL05 0278

Data File: /chem/HP09915.i/10mar04o.b/lw04t03.d

Page 2

Date : 04-MAR-2010 11:54

Client ID: BFB FEB26-10

Instrument: HP09915.i

Sample Info: BFB FEB26-10;50NG BFB;

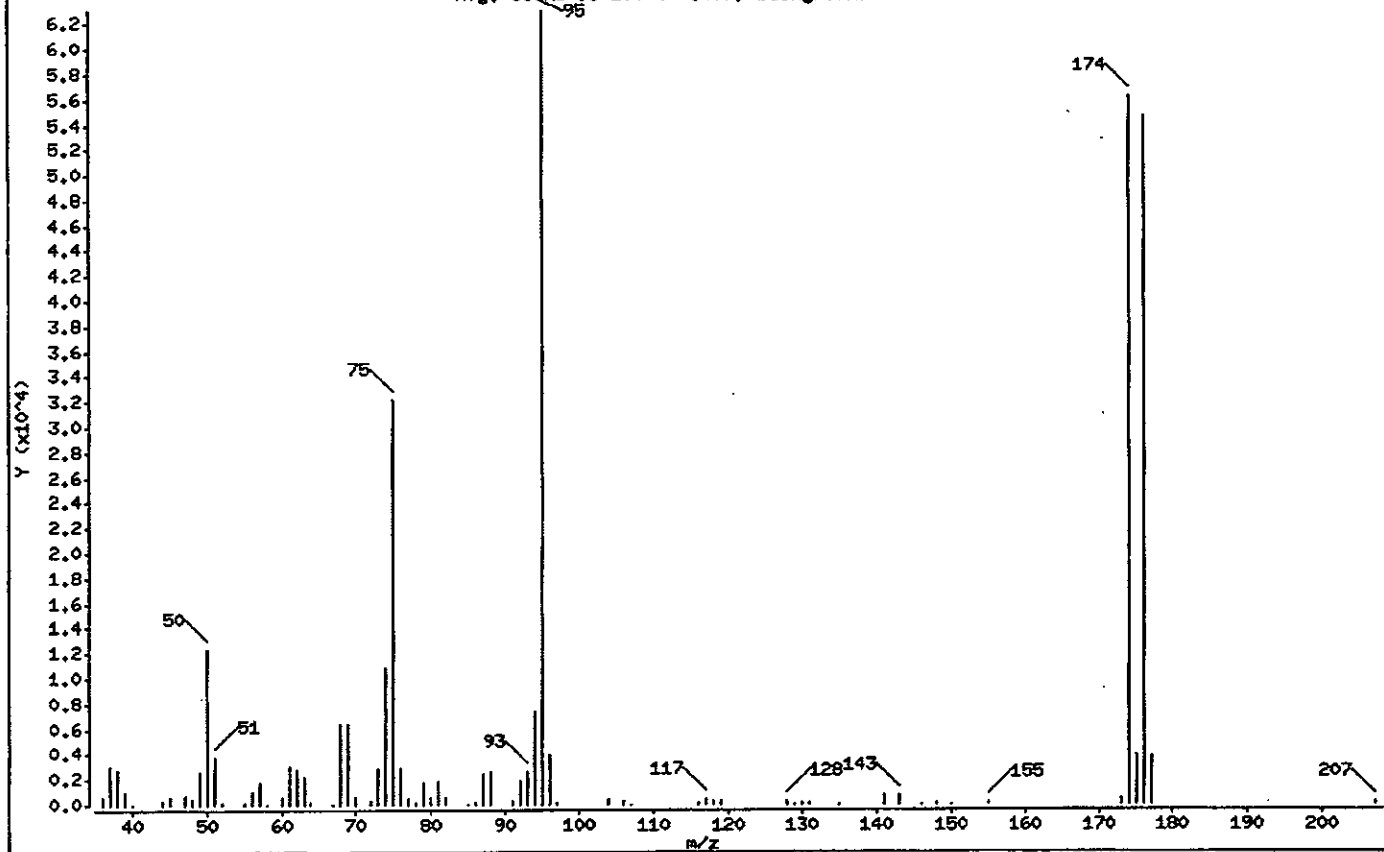
Operator: CBE01947

Column phase: DB-624

Column diameter: 0.25

1 bfb

Avg. Scans 98-100 (4.40), Background Scan 86



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.51
75	30.00 - 60.00% of mass 95	50.95
96	5.00 - 9.00% of mass 95	6.30
173	Less than 2.00% of mass 174	0.60 (0.67)
174	50.00 - 100.00% of mass 95	89.30
175	5.00 - 9.00% of mass 174	6.24 (6.99)
176	95.00 - 101.00% of mass 174	86.74 (97.14)
177	5.00 - 9.00% of mass 176	5.97 (6.88)

PTL05 0271

Data File: /chem/HP09915.1/10mar04c.b/1a04t03.d

Page 3

Date : 04-MAR-2010 11:54

Client ID: BFB FEB26-10

Instrument: HP09915.1

Sample Info: BFB FEB26-10;50NG BFB;

Operator: CBE01947

Column phase: DB-624

Column diameter: 0.25

Data File: 1a04t03.d

Spectrum: Avg. Scans 98-100 (4,40), Background Scan 86

Location of Maximum: 95.00

Number of points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	576	62.00	2728	86.00	77	130.00	165
37.00	3017	63.00	2225	87.00	2509	131.00	160
38.00	2684	64.00	155	88.00	2581	135.00	53
39.00	957	67.00	66	91.00	309	141.00	756
40.00	1	68.00	6353	92.00	1932	143.00	770
44.00	337	69.00	6444	93.00	2665	146.00	56
45.00	630	70.00	583	94.00	7466	148.00	131
47.00	737	72.00	320	95.00	63064	150.00	65
48.00	366	73.00	2967	96.00	3971	155.00	115
49.00	2673	74.00	10814	97.00	109	173.00	380
50.00	12304	75.00	32128	104.00	428	174.00	56312
51.00	3785	76.00	2949	106.00	319	175.00	3935
52.00	183	77.00	416	107.00	53	176.00	54704
55.00	132	78.00	177	116.00	174	177.00	3765
56.00	955	79.00	1747	117.00	480	207.00	75
57.00	1757	80.00	565	118.00	288		
58.00	57	81.00	1922	119.00	361		
60.00	532	82.00	516	128.00	259		
61.00	3021	85.00	63	129.00	61		

PTL05 0272

Data File: /chem/HP09915.i/10mar23a.b/lm23t01.d

Page 1

Date : 23-MAR-2010 09:18

Client ID: BFB FEB26-10

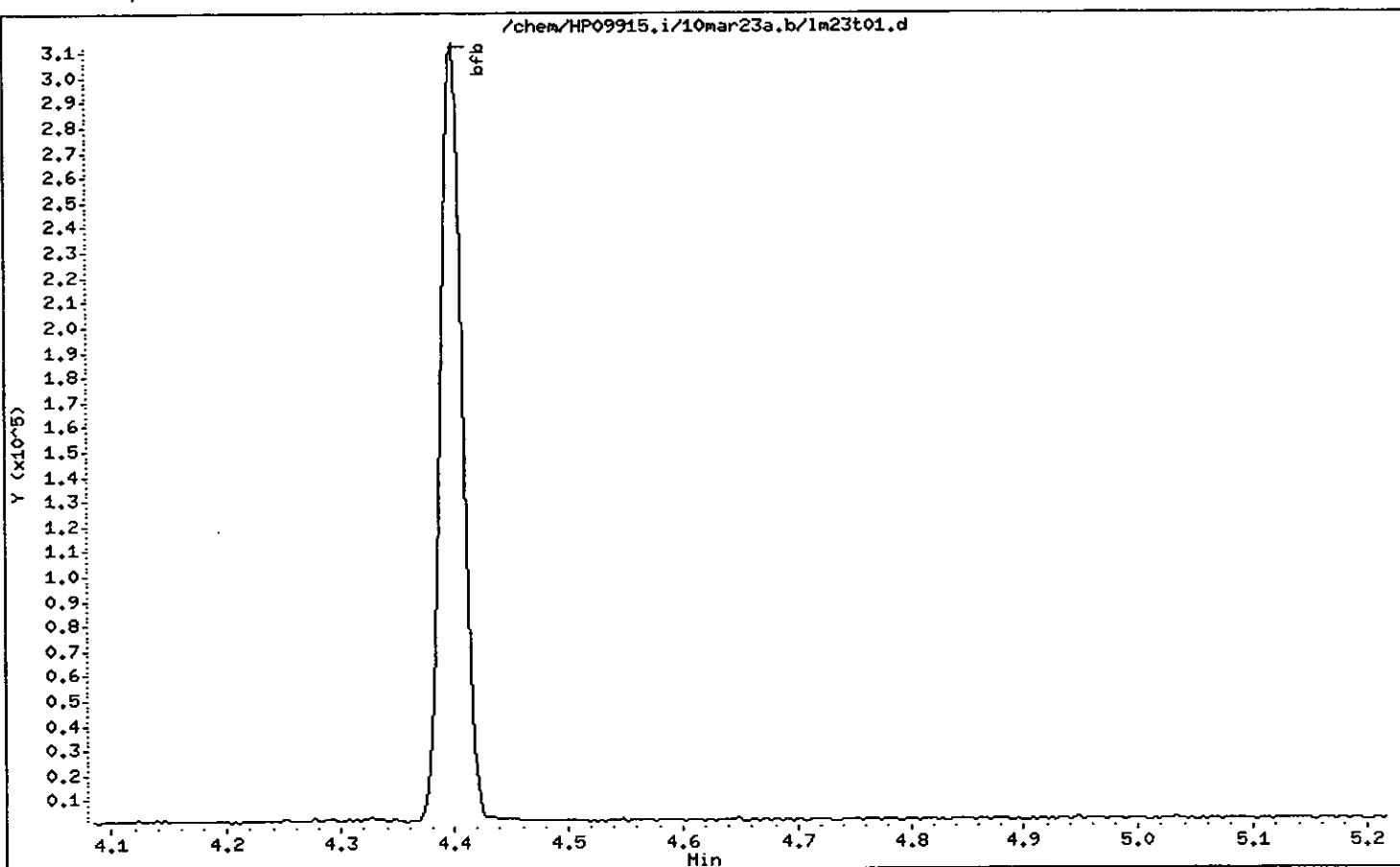
Instrument: HP09915.i

Sample Info: BFB FEB26-10;50NG BFB;1;3;:::;;

Operator: LCP00895

Column phase: DB-624

Column diameter: 0.25



LCP00895
3.23.10

PTL05 0273

Date : 23-MAR-2010 09:18

Client ID: BFB FEB26-10

Instrument: HP09915.i

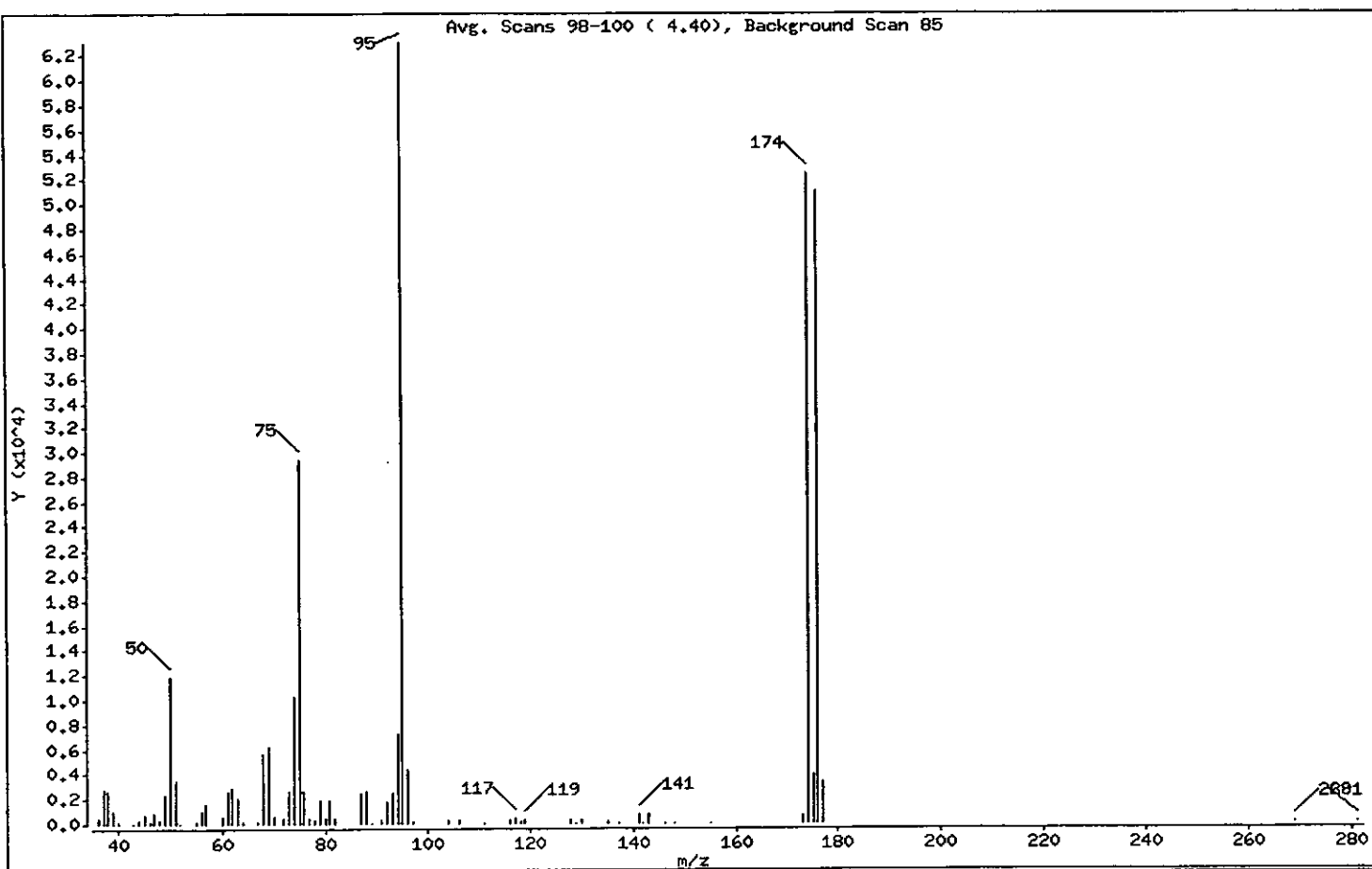
Sample Info: BFB FEB26-10;50NG BFB;1;3;:::;;

Operator: LCP00895

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.88
75	30.00 - 60.00% of mass 95	46.71
96	5.00 - 9.00% of mass 95	6.98
173	Less than 2.00% of mass 174	0.98 (1.17)
174	50.00 - 100.00% of mass 95	83.26
175	5.00 - 9.00% of mass 174	6.15 (7.39)
176	95.00 - 101.00% of mass 174	80.82 (97.07)
177	5.00 - 9.00% of mass 176	5.29 (6.55)

Data File: /chem/HP09915.i/10mar23a.b/lm23t01.d

Page 3

Date : 23-MAR-2010 09:18

Client ID: BFB FEB26-10

Instrument: HP09915.i

Sample Info: BFB FEB26-10;50NG BFB;1;3;:::;

Operator: LCP00895

Column phase: DB-624

Column diameter: 0.25

Data File: lm23t01.d

Spectrum: Avg. Scans 98-100 (4.40), Background Scan 85

Location of Maximum: 95.00

Number of points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	457	61.00	2636	87.00	2501	130.00	232
37.00	2698	62.00	2877	88.00	2612	135.00	133
38.00	2678	63.00	1992	89.00	56	137.00	57
39.00	1087	64.00	172	91.00	260	141.00	754
40.00	122	67.00	152	92.00	1775	142.00	62
43.00	52	68.00	5716	93.00	2522	143.00	728
44.00	236	69.00	6295	94.00	7250	146.00	50
45.00	680	70.00	646	95.00	63080	148.00	58
46.00	110	72.00	419	96.00	4404	155.00	58
47.00	876	73.00	2672	97.00	122	173.00	617
48.00	353	74.00	10319	104.00	277	174.00	52520
49.00	2273	75.00	29464	106.00	288	175.00	3879
50.00	11910	76.00	2558	111.00	63	176.00	50984
51.00	3551	77.00	397	116.00	230	177.00	3338
52.00	59	78.00	360	117.00	393	269.00	51
55.00	136	79.00	1899	118.00	204	281.00	33
56.00	986	80.00	494	119.00	347		
57.00	1652	81.00	1835	128.00	227		
60.00	553	82.00	390	129.00	51		

PTL05 0275

VBLKL72

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL72

File: /chem/HP09915.i/10mar23a.b/lm23b02.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: VBLKL72;VBLKL72;1;3;:::

Batch: L100821AA

Matrix: WATER

Injected At: 23-MAR-2010 10:23

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID: HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference:

Prep Factor: 1.00

Sublist: 8260W-2MNFRT

Units: ug/L

Bottle Code:

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.793(-0.019)	688	65	201069(17)	250.00	
72) Fluorobenzene	7.266(-0.006)	1768	96	1104011(4)	50.00	
104) Chlorobenzene-d5	10.845(0.000)	2881	117	801930(6)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	449104(4)	50.00	

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.330(0.000)	113	269224	49.776	100%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.793(0.001)	102	62309	49.939	100%		77 - 113
90) Toluene-d8	(2)	9.340(0.000)	98	1051680	49.409	99%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.857(0.000)	95	394099	49.642	99%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* = PERCENT REC.OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
13) Ethyl Ether	(1)				ND	ND			2.00	5.00
16) Acrolein	(4)				ND	ND			40.00	100.00
17) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
18) Freon 113	(1)				ND	ND			2.00	10.00
20) Acetone	(1)				ND	ND			6.00	20.00
21) 2-Propanol	(4)				ND	ND			50.00	100.00
23) Methyl Iodide	(1)				ND	ND			1.00	5.00
24) Carbon Disulfide	(1)				ND	ND			1.00	5.00
28) Allyl Chloride	(1)				ND	ND			1.00	5.00
26) Methyl Acetate	(1)				ND	ND			1.00	5.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) t-Butyl Alcohol	(4)				ND	ND			10.00	80.00
32) Acrylonitrile	(1)				ND	ND			4.00	20.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
35) n-Hexane	(1)				ND	ND			2.00	5.00
43) 1,2-Dichloroethene (total)	(1)				ND	ND			0.80	5.00
37) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 1 of 5

PTL05 0276

VBLKL72

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL72

File: /chem/HP09915.1/10mar23a.b/lm23b02.d

Sample: VBLKL72;VBLKL72;1;3;:::

Injected At: 23-MAR-2010 10:23

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference:

Sublist: 8260W-2MNPRT

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID: HP09915.1

Standard Reference: lm23c01.d

Prep Factor: 1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code:

Target Compounds	I.S.		QIon	Area	Conc.	Conc.	Blank	Reporting	
	Ref.	RT (+/-RRT)			(on column)	(in sample)	Conc.	Qual.	Limit LOQ
40) di-Isopropyl Ether	(1)				ND	ND		0.80	5.00
41) 2-Chloro-1,3-Butadiene	(1)				ND	ND		1.00	5.00
42) Ethyl t-Butyl Ether	(1)				ND	ND		0.80	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND		0.80	5.00
47) 2-Butanone	(1)				ND	ND		3.00	10.00
45) 2,2-Dichloropropane	(1)				ND	ND		1.00	5.00
48) Propionitrile	(4)				ND	ND		30.00	100.00
49) Methacrylonitrile	(1)				ND	ND		10.00	50.00
50) Bromochloromethane	(1)				ND	ND		1.00	5.00
51) Tetrahydrofuran	(4)				ND	ND		4.00	10.00
53) Chloroform	(1)				ND	ND		0.80	5.00
56) 1,1,1-Trichloroethane	(1)				ND	ND		0.80	5.00
57) Cyclohexane	(1)				ND	ND		2.00	5.00
60) 1,1-Dichloropropene	(1)				ND	ND		1.00	5.00
61) Carbon Tetrachloride	(1)				ND	ND		1.00	5.00
63) Isobutyl Alcohol	(4)				ND	ND		100.00	250.00
67) Benzene	(1)				ND	ND		0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND		1.00	5.00
71) t-Amyl Methyl Ether	(1)				ND	ND		0.80	5.00
73) n-Heptane	(1)				ND	ND		2.00	5.00
75) n-Butanol	(4)				ND	ND		100.00	250.00
76) Trichloroethene	(1)				ND	ND		1.00	5.00
77) Methylcyclohexane	(1)				ND	ND		1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND		1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 5

PTL85 8277

File: /chem/HP09915.i/10mar23a.b/lm23b02.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: VBLKL72;VBLKL72;1;3;;;

Batch: L100821AA

Matrix: WATER

Injected At:23-MAR-2010 10:23

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: 1m23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference:

Prep Factor:1.00

Bottle Code:

Sublist: 8260W-2MNFRT

Units: ug/L

Target Compounds	I.S.	RT	(+/-RRT)	QIon	Area	Conc.	Conc.	Blank	Reporting		
	Ref.					(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	
80) Dibromomethane	(1)					ND	ND			1.00	5.00
82) Methyl Methacrylate	(1)					ND	ND			1.00	5.00
83) 1,4-Dioxane	(4)					ND	ND			70.00	250.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
85) 2-Nitropropane	(1)					ND	ND			2.00	10.00
86) 2-Chloroethyl Vinyl Ether	(1)					ND	ND			2.00	10.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
95) Ethyl Methacrylate	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
100) 2-Hexanone	(2)					ND	ND			3.00	10.00
101) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
107) Ethylbenzene	(2)					ND	ND			0.80	5.00
108) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
110) o-Xylene	(2)					ND	ND			0.80	5.00
111) Styrene	(2)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

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PTL85 0278

VBLKL72

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL72

File: /chem/HP09915.i/10mar23a.b/lm23b02.d

Sample: VBLKL72;VBLKL72;1;3;:::;

Injected At: 23-MAR-2010 10:23

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference:

Sublist: 8260W-2MNFRT

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID: HP09915.1

Standard Reference: lm23c01.d

Prep Factor: 1.00

Units: ug/L

Matrix: WATER

Level: LOW

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
113) Bromoform	(2)					ND	ND			1.00	5.00
114) Isopropylbenzene	(2)					ND	ND			1.00	5.00
117) Cyclohexanone	(4)					ND	ND			55.00	250.00
121) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
124) trans-1,4-Dichloro-2-Butene	(3)					ND	ND			15.00	50.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
127) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
128) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
129) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
131) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) Pentachloroethane	(3)					ND	ND			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
139) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
137) 1,2,3-Trimethylbenzene	(3)					ND	ND			1.00	5.00
140) Benzyl Chloride	(3)					ND	ND			1.00	5.00
141) 1,3-Diethylbenzene	(3)					ND	ND			1.00	5.00
142) 1,4-Diethylbenzene	(3)					ND	ND			1.00	5.00
144) n-Butylbenzene	(3)					ND	ND			1.00	5.00
145) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

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PTL05 8879

File: /chem/HP09915.i/10mar23a.b/lm23b02.d
Sample: VBLKL72;VBLKL72;1;3;;;;;
Injected At:23-MAR-2010 10:23
Calibration Time: 17-FEB-2010 21:34
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W-2MNFRT

Sample Concentration Formula: On-Column Amount * (Vt/Vo)	
Batch: L100821AA	Matrix: WATER
Analyst: LCP00895	Level: Low
Instrument ID: HP09915.i	Sample Wt./Vo
Standard Reference: 1m23c01.d	Volume Purged
Prep Factor: 1.00	
Units: ug/L	Bottle Code:

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:

Target Compounds	I.S.	RT (+/-RRT)	QIon	Area	Conc.	Conc.	Blank	Reporting	
	Ref.				(on column)	(in sample)	Conc.	Qual.	Limit
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
143) 1,2-Diethylbenzene	(3)				ND	ND		1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)				ND	ND		2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)				ND	ND		1.00	5.00
149) Hexachlorobutadiene	(3)				ND	ND		2.00	5.00
150) Naphthalene	(3)				ND	ND		1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)				ND	ND		1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: _____ Date: 3-23-10

Auditor: _____ Date: 5/28/10

PTL050281
Page 1

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23b02.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 10:23 Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar20a.b/L8260W.m Sublist used: 8260W-2MNFRT
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 11:05 lcp00895

Sample Name: VBLKL72

Lab Sample ID: VBLKL72

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
30) *t-Butyl Alcohol-d10	(4)	3.793	65	201069	250.000
72) *Fluorobenzene	(1)	7.266	96	1104011	50.000
104) *Chlorobenzene-d5	(2)	10.845	117	801930	50.000
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	449104	50.000
54) \$Dibromofluoromethane	(1)	6.330	113	269224	49.776
64) \$1,2-Dichloroethane-d4	(1)	6.793	102	62309	49.939
90) \$Toluene-d8	(2)	9.340	98	1051680	49.409
119) \$4-Bromofluorobenzene	(2)	11.857	95	394099	49.642

* = Compound is an internal standard.

\$ = Compound is a surrogate standard.

PA19DMS

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932516

File: /chem/HP09915.1/10mar23a.b/lm23s07.d

Sample: PA19DMS;5932516;1;3;MS; ; ; ; ;

Injected At: 23-MAR-2010 13:50

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID: HP09915.1

Standard Reference: lm23c01.d

Prep Factor: 1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code: 38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.793(-0.019)	688	65	201104(17)	250.00	
72) Fluorobenzene	7.266(-0.006)	1768	56	1009046(-5)	50.00	
104) Chlorobenzene-d5	10.845(0.000)	2881	117	727057(-4)	50.00	
138) 1,4-Dichlorobenzene-d4	12.742(0.003)	3471	152	397799(-8)	50.00	

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.327(0.000)	113	254456	51.473	103%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.793(0.001)	102	57412	50.345	101%		77 - 113
90) Toluene-d8	(2)	9.340(0.000)	98	964099	49.959	100%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.854(0.000)	95	349918	48.616	97%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* = PERCENT REC.OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)	1.761(-0.001)	85	135973	15.373	15.37		2.00	5.00	
3) Chloromethane	(1)	1.871(0.001)	50	89816	15.925	15.92		1.00	5.00	
4) Vinyl Chloride	(1)	1.993(0.001)	62	101247	19.208	19.21		1.00	5.00	
7) Bromomethane	(1)	2.298(0.001)	94	53995	14.577	14.58		1.00	5.00	
9) Chloroethane	(1)	2.388(0.002)	64	40178	13.323	13.32		1.00	5.00	
11) Trichlorofluoromethane	(1)	2.675(0.000)	101	185518	19.621	19.62		2.00	5.00	
17) 1,1-Dichloroethene	(1)	3.189(0.000)	96	141741	28.749	28.75		0.80	5.00	
20) Acetone	(1)	3.224(-0.001)	43	396583	138.375	138.38		6.00	20.00	
29) Methylene Chloride	(1)	3.761(0.000)	84	125237	20.233	20.23		2.00	5.00	
33) trans-1,2-Dichloroethene	(1)	4.144(0.000)	96	121691	20.762	20.76		0.80	5.00	
34) Methyl Tertiary Butyl Ether	(1)	4.157(-0.001)	73	359230	18.298	18.30		0.50	5.00	
37) 1,1-Dichloroethane	(1)	4.774(0.000)	63	227385	21.143	21.14		1.00	5.00	
44) cis-1,2-Dichloroethene	(1)	5.639(0.001)	96	126132	20.288	20.29		0.80	5.00	
47) 2-Butanone	(1)	5.655(-0.001)	43	650534	125.847	125.85		3.00	10.00	
45) 2,2-Dichloropropane	(1)	5.649(0.001)	77	163146	20.319	20.32		1.00	5.00	
50) Bromochloromethane	(1)	5.980(0.000)	128	59767	19.246	19.25		1.00	5.00	
53) Chloroform	(1)	6.109(0.000)	83	217707	20.954	20.95		0.80	5.00	
56) 1,1,1-Trichloroethane	(1)	6.372(0.000)	97	202924	20.781	20.78		0.80	5.00	
60) 1,1-Dichloropropene	(1)	6.600(0.001)	75	164181	20.246	20.25		1.00	5.00	
61) Carbon Tetrachloride	(1)	6.607(0.000)	117	148785	20.181	20.18		1.00	5.00	
67) Benzene	(1)	6.880(0.001)	78	454324	18.987	18.99		0.50	5.00	
68) 1,2-Dichloroethane	(1)	6.896(0.000)	62	162111	18.802	18.80		1.00	5.00	
76) Trichloroethene	(1)	7.758(0.001)	95	125703	20.417	20.42		1.00	5.00	
79) 1,2-Dichloropropane	(1)	8.044(0.001)	63	130156	19.427	19.43		1.00	5.00	

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

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PTL85 8283

PA19DMS

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932516

File: /chem/HP09915.i/10mar23a.b/lm23s07.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA19DMS;5932516;1;3;MS;;;;;

Batch:L100821AA

Matrix: WATER

Injected At:23-MAR-2010 13:50

Analyst:LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID:HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: lm23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: lm23b02.d

Prep Factor:1.00

Sublist: MWH

Units: ug/L

Bottle Code:38A

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
80) Dibromomethane	(1)	8.195(0.001)	93	81479	18.747	18.75		1.00	5.00	
84) Bromodichloromethane	(1)	8.411(0.001)	83	140690	18.989	18.99		1.00	5.00	
87) cis-1,3-Dichloropropene	(1)	8.996(0.002)	75	170644	17.234	17.23		1.00	5.00	
88) 4-Methyl-2-Pentanone	(1)	9.205(0.001)	43	847173	73.433	73.43		3.00	10.00	
93) Toluene	(2)	9.420(0.000)	92	274839	18.924	18.92		0.70	5.00	
94) trans-1,3-Dichloropropene	(2)	9.674(0.000)	75	165194	17.764	17.76		1.00	5.00	
96) 1,1,2-Trichloroethane	(2)	9.870(0.000)	97	108657	18.923	18.92		0.80	5.00	
97) Tetrachloroethene	(2)	10.034(0.000)	166	121923	19.783	19.78		0.80	5.00	
98) 1,3-Dichloropropane	(2)	10.050(0.000)	76	188080	18.459	18.46		1.00	5.00	
101) Dibromochloromethane	(2)	10.282(0.000)	129	105951	17.310	17.31		1.00	5.00	
103) 1,2-Dibromoethane	(2)	10.395(0.000)	107	112227	17.253	17.25		1.00	5.00	
105) Chlorobenzene	(2)	10.874(0.000)	112	319525	19.245	19.25		0.80	5.00	
106) 1,1,1,2-Tetrachloroethane	(2)	10.948(0.000)	131	105085	18.486	18.49		1.00	5.00	
107) Ethylbenzene	(2)	10.976(0.000)	91	547647	19.725	19.72		0.80	5.00	
108) m+p-Xylene	(2)	11.079(0.000)	106	404434	38.120	38.12		0.80	5.00	
110) o-Xylene	(2)	11.427(0.000)	106	203165	19.641	19.64		0.80	5.00	
111) Styrene	(2)	11.436(0.000)	104	330512	19.169	19.17		1.00	5.00	
113) Bromoform	(2)	11.587(0.000)	173	75082	15.690	15.69		1.00	5.00	
114) Isopropylbenzene	(2)	11.735(0.000)	105	524780	20.471	20.47		1.00	5.00	
121) 1,1,2,2-Tetrachloroethane	(3)	11.967(0.000)	83	173913	19.147	19.15		1.00	5.00	
122) Bromobenzene	(3)	11.983(0.000)	156	129844	19.405	19.40		1.00	5.00	
123) 1,2,3-Trichloropropane	(3)	11.999(0.000)	110	49654	19.124	19.12		1.00	5.00	
125) n-Propylbenzene	(3)	12.060(0.000)	120	149596	20.533	20.53		1.00	5.00	
127) 2-Chlorotoluene	(3)	12.131(0.000)	126	126561	20.389	20.39		1.00	5.00	

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

PTL85 0284

PA19DMS

File: /chem/HP09915.i/10mar23a.b/lm23s07.d

Sample: PA19DMS;5932516;1;3;MS; ; ; ; ;

Injected At: 23-MAR-2010 13:50

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID: HP09915.i

Standard Reference: lm23c01.d

Prep Factor: 1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)


Bottle Code: 38A

Target Compounds	I.S.		RT (+/-RRT)	QIon	Area	Conc.	Conc.	Blank	Reporting		
	Ref.					(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====		=====	=====	=====	=====	=====	=====	=====	=====	=====
128) 1,3,5-Trimethylbenzene	(3)	12.195	(0.000)	120	214425	20.399		20.40		1.00	5.00
129) 4-Chlorotoluene	(3)	12.214	(0.000)	126	131372	19.961		19.96		1.00	5.00
131) tert-Butylbenzene	(3)	12.449	(0.000)	134	99138	20.420		20.42		1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)	12.481	(0.000)	105	472738	21.216		21.22		1.00	5.00
134) sec-Butylbenzene	(3)	12.613	(0.000)	134	113575	20.402		20.40		1.00	5.00
135) 1,3-Dichlorobenzene	(3)	12.697	(0.000)	146	255834	19.835		19.83		1.00	5.00
136) p-Isopropyltoluene	(3)	12.713	(0.000)	134	132402	20.455		20.46		1.00	5.00
139) 1,4-Dichlorobenzene	(3)	12.761	(0.000)	146	265256	19.364		19.36		1.00	5.00
144) n-Butylbenzene	(3)	13.005	(0.000)	92	244939	20.703		20.70		1.00	5.00
145) 1,2-Dichlorobenzene	(3)	13.031	(0.000)	146	244281	19.340		19.34		1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)	13.568	(0.000)	75	34626	17.953		17.95		2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)	14.127	(0.000)	160	180996	19.118		19.12		1.00	5.00
149) Hexachlorobutadiene	(3)	14.234	(0.000)	225	86284	20.588		20.59		2.00	5.00
150) Naphthalene	(3)	14.295	(0.000)	128	534678	19.335		19.33		1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)	14.452	(0.000)	180	164255	18.726		18.73		1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: Client

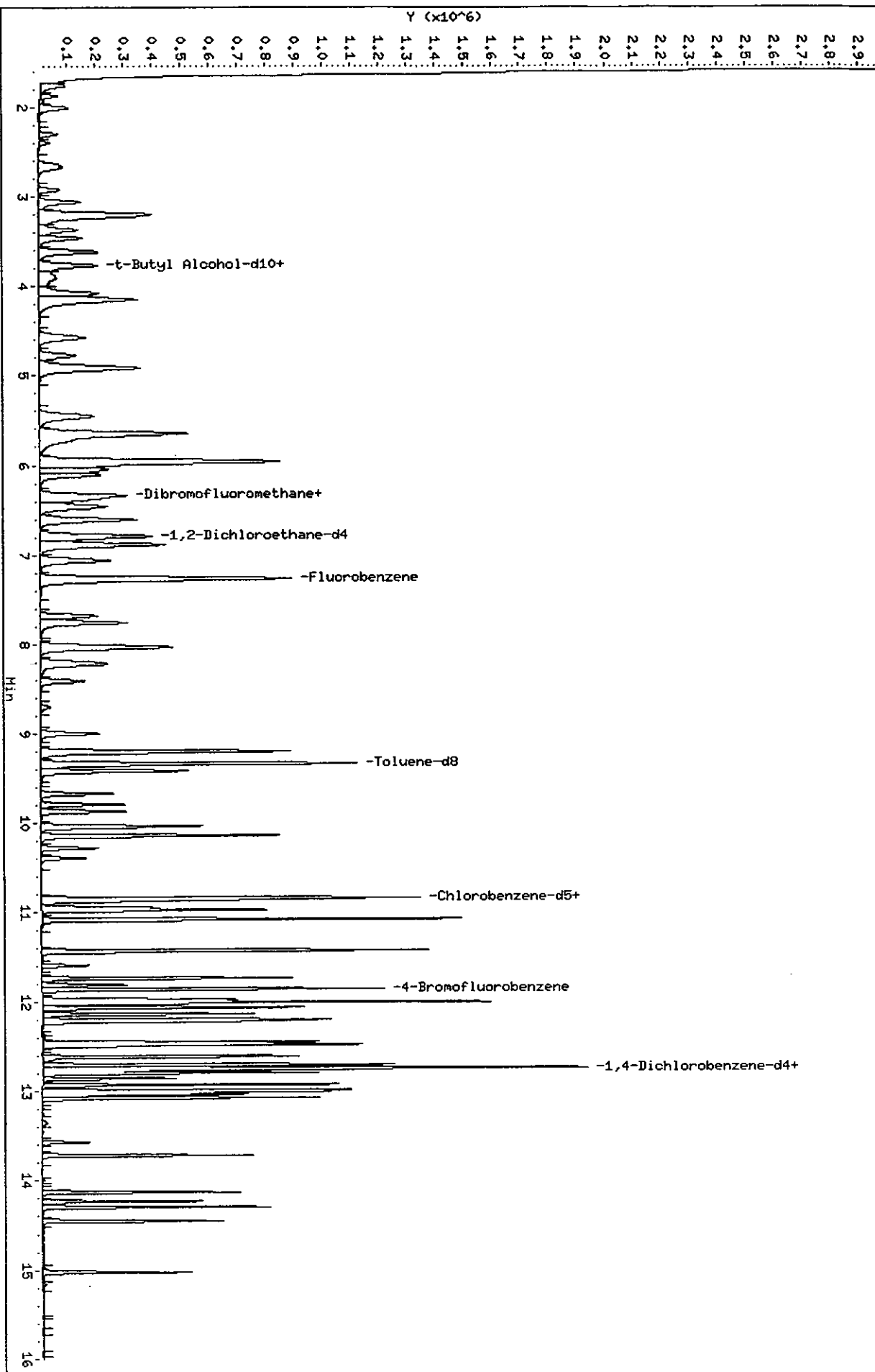
Analyst: LCP00895 Date: 3.23.10

 Date: 3/28/10

Data File: /chem/HP09915.i/10mar23a.b/1m23s07.d
Date: 23-MAR-2010 13:50
Client ID: PA19DHS
Sample Info: PA19DHS;5932516;1,3;HS;::;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: LCP00895
Column diameter: 0.25

/chem/HP09915.i/10mar23a.b/1m23s07.d



5.27.10

PTL05 0286

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s07.d Instrument ID: HP09915.i
 Injection date and time: 23-MAR-2010 13:50 Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
 Calibration date and time: 17-FEB-2010 21:34
 Date, time and analyst ID of latest file update: 23-Mar-2010 14:47 lcp00895

Sample Name: PA19DMS

Lab Sample ID: 5932516

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)	1.761	85	135973	15.373
3) Chloromethane	(1)	1.871	50	89816	15.925
4) Vinyl Chloride	(1)	1.993	62	101247	19.208
7) Bromomethane	(1)	2.298	94	53995	14.577
9) Chloroethane	(1)	2.388	64	40178	13.323
11) Trichlorofluoromethane	(1)	2.675	101	185518	19.621
17) 1,1-Dichloroethene	(1)	3.189	96	141741	28.749
20) Acetone	(1)	3.224	43	396583	138.375
29) Methylene Chloride	(1)	3.761	84	125237	20.233
30) *t-Butyl Alcohol-d10	(4)	3.793	65	201104	250.000
33) trans-1,2-Dichloroethene	(1)	4.144	96	121691	20.762
34) Methyl Tertiary Butyl Ether	(1)	4.157	73	359230	18.298
37) 1,1-Dichloroethane	(1)	4.774	63	227385	21.143
44) cis-1,2-Dichloroethene	(1)	5.639	96	126132	20.288
47) 2-Butanone	(1)	5.655	43	650534	125.847
45) 2,2-Dichloropropane	(1)	5.649	77	163146	20.319
50) Bromochloromethane	(1)	5.980	128	59767	19.246
53) Chloroform	(1)	6.109	83	217707	20.954
56) 1,1,1-Trichloroethane	(1)	6.372	97	202924	20.781
60) 1,1-Dichloropropene	(1)	6.600	75	164181	20.246
61) Carbon Tetrachloride	(1)	6.607	117	148785	20.181
67) Benzene	(1)	6.880	78	454324	18.987
68) 1,2-Dichloroethane	(1)	6.896	62	162111	18.802
72) *Fluorobenzene	(1)	7.266	96	1009046	50.000
76) Trichloroethene	(1)	7.758	95	125703	20.417
79) 1,2-Dichloropropane	(1)	8.044	63	130156	19.427
80) Dibromomethane	(1)	8.195	93	81479	18.747
84) Bromodichloromethane	(1)	8.411	83	140690	18.989
87) cis-1,3-Dichloropropene	(1)	8.996	75	170644	17.234
88) 4-Methyl-2-Pentanone	(1)	9.205	43	847173	73.433
93) Toluene	(2)	9.420	92	274839	18.924
94) trans-1,3-Dichloropropene	(2)	9.674	75	165194	17.764
96) 1,1,2-Trichloroethane	(2)	9.870	97	108657	18.923
97) Tetrachloroethene	(2)	10.034	166	121923	19.783

PTL05 0287

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s07.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 13:50 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 14:47 lcp00895
Sample Name: PA19DMS Lab Sample ID: 5932516

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
98) 1,3-Dichloropropane	(2)	10.050	76	188080	18.459
101) Dibromochloromethane	(2)	10.282	129	105951	17.310
103) 1,2-Dibromoethane	(2)	10.395	107	112227	17.253
104)*Chlorobenzene-d5	(2)	10.845	117	727057	50.000
105) Chlorobenzene	(2)	10.874	112	319525	19.245
106) 1,1,1,2-Tetrachloroethane	(2)	10.948	131	105085	18.486
107) Ethylbenzene	(2)	10.976	91	547647	19.725
108) m+p-Xylene	(2)	11.079	106	404434	38.120
110) o-Xylene	(2)	11.427	106	203165	19.641
111) Styrene	(2)	11.436	104	330512	19.169
113) Bromoform	(2)	11.587	173	75082	15.690
114) Isopropylbenzene	(2)	11.735	105	524780	20.471
121) 1,1,2,2-Tetrachloroethane	(3)	11.967	83	173913	19.147
122) Bromobenzene	(3)	11.983	156	129844	19.405
123) 1,2,3-Trichloropropane	(3)	11.999	110	49654	19.124
125) n-Propylbenzene	(3)	12.060	120	149596	20.533
127) 2-Chlorotoluene	(3)	12.131	126	126561	20.389
128) 1,3,5-Trimethylbenzene	(3)	12.195	120	214425	20.399
129) 4-Chlorotoluene	(3)	12.214	126	131372	19.961
131) tert-Butylbenzene	(3)	12.449	134	99138	20.420
133) 1,2,4-Trimethylbenzene	(3)	12.481	105	472738	21.216
134) sec-Butylbenzene	(3)	12.613	134	113575	20.402
135) 1,3-Dichlorobenzene	(3)	12.697	146	255834	19.835
136) p-Isopropyltoluene	(3)	12.713	134	132402	20.455
138)*1,4-Dichlorobenzene-d4	(3)	12.742	152	397799	50.000
139) 1,4-Dichlorobenzene	(3)	12.761	146	265256	19.364
144) n-Butylbenzene	(3)	13.005	92	244939	20.703
145) 1,2-Dichlorobenzene	(3)	13.031	146	244281	19.340
146) 1,2-Dibromo-3-Chloropropane	(3)	13.568	75	34626	17.953
148) 1,2,4-Trichlorobenzene	(3)	14.127	180	180996	19.118
149) Hexachlorobutadiene	(3)	14.234	225	86284	20.588
150) Naphthalene	(3)	14.295	128	534678	19.335
152) 1,2,3-Trichlorobenzene	(3)	14.452	180	164255	18.726
54)\$Dibromofluoromethane	(1)	6.327	113	254456	51.473

PTL05 0288

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s07.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 13:50 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 14:47 lcp00895
Sample Name: PA19DMS Lab Sample ID: 5932516

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
64)\$1,2-Dichloroethane-d4	(1)	6.793	102	57412	50.345
90)\$Toluene-d8	(2)	9.340	98	964099	49.959
119)\$4-Bromofluorobenzene	(2)	11.854	95	349918	48.616

\$ = Compound is a surrogate standard.

PA19DMSD

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932517

File: /chem/HP09915.1/10mar23a.b/1m23s08.d

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Sample: PA19DMSD;5932517;1;3;MSD; ; ; ; ;

Batch: L100821AA

Matrix: WATER

Injected At: 23-MAR-2010 14:12

Analyst: LCP00895

Level: Low

Calibration Time: 17-FEB-2010 21:34

Instrument ID: HP09915.1

Sample Wt./Vol.: 5.0000 ml (Vo)

Target Method: L8260W.m

Standard Reference: 1m23c01.d

Volume Purged: 5.0 ml (Vt)

Blank Reference: 1m23b02.d

Prep Factor: 1.00

Sublist: MWH

Units: ug/L

Bottle Code: 38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.797(-0.023)	689	65	201794(18)	250.00	
72) Fluorobenzene	7.266(-0.006)	1768	96	1024055(-3)	50.00	
104) Chlorobenzene-d5	10.845(0.000)	2881	117	725400(-4)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	398786(-8)	50.00	

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.330(0.000)	113	255969	51.020	102%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.797(0.000)	102	57605	49.775	100%		77 - 113
90) Toluene-d8	(2)	9.340(0.000)	98	976210	50.702	101%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.858(0.000)	95	358738	49.955	100%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE

* = PERCENT REC. OUT OF RANGE

D = DILUTED OUT

NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)	1.758(0.000)	85	142941	15.924	15.92			2.00	5.00
3) Chloromethane	(1)	1.874(0.001)	50	89548	15.644	15.64			1.00	5.00
4) Vinyl Chloride	(1)	1.993(0.001)	62	99659	18.630	18.63			1.00	5.00
7) Bromomethane	(1)	2.295(0.002)	94	57404	15.270	15.27			1.00	5.00
9) Chloroethane	(1)	2.395(0.001)	64	41553	13.585	13.58			1.00	5.00
11) Trichlorofluoromethane	(1)	2.671(0.001)	101	190789	19.883	19.88			2.00	5.00
17) 1,1-Dichloroethene	(1)	3.196(-0.001)	96	148346	29.647	29.65			0.80	5.00
20) Acetone	(1)	3.221(0.000)	43	400755	137.781	137.78			6.00	20.00
29) Methylene Chloride	(1)	3.768(-0.001)	84	128900	20.519	20.52			2.00	5.00
33) trans-1,2-Dichloroethene	(1)	4.147(0.000)	96	124404	20.914	20.91			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)	4.160(-0.001)	73	373716	18.756	18.76			0.50	5.00
37) 1,1-Dichloroethane	(1)	4.777(-0.001)	63	232906	21.339	21.34			1.00	5.00
44) cis-1,2-Dichloroethene	(1)	5.642(0.000)	96	130586	20.697	20.70			0.80	5.00
47) 2-Butanone	(1)	5.652(0.000)	43	649305	123.768	123.77			3.00	10.00
45) 2,2-Dichloropropane	(1)	5.658(-0.001)	77	169824	20.841	20.84			1.00	5.00
50) Bromochloromethane	(1)	5.990(-0.001)	128	61494	19.512	19.51			1.00	5.00
53) Chloroform	(1)	6.109(0.000)	83	220673	20.929	20.93			0.80	5.00
56) 1,1,1-Trichloroethane	(1)	6.372(0.000)	97	212812	21.474	21.47			0.80	5.00
60) 1,1-Dichloropropene	(1)	6.597(0.001)	75	168311	20.451	20.45			1.00	5.00
61) Carbon Tetrachloride	(1)	6.610(0.000)	117	155745	20.816	20.82			1.00	5.00
67) Benzene	(1)	6.883(0.000)	78	463088	19.070	19.07			0.50	5.00
68) 1,2-Dichloroethane	(1)	6.896(0.000)	62	168002	19.200	19.20			1.00	5.00
76) Trichloroethene	(1)	7.758(0.001)	95	127834	20.459	20.46			1.00	5.00
79) 1,2-Dichloropropane	(1)	8.047(0.001)	63	129353	19.024	19.02			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 1 of 3

PTL05 0298

File: /chem/HP09915.1/10mar23a.b/lm23s08.d

Sample: PA19DMSD;5932517;1;3;MSD; ; ; ; ;

Injected At:23-MAR-2010 14:12

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch:L100821AA

Analyst:LCP00895

Instrument ID:HP09915.1

Standard Reference: lm23c01.d

Prep Factor:1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
80) Dibromomethane	(1)	8.192(0.001)	93	84144	19.076	19.08			1.00	5.00
84) Bromodichloromethane	(1)	8.414(0.001)	83	146316	19.459	19.46			1.00	5.00
87) cis-1,3-Dichloropropene	(1)	9.002(0.001)	75	174987	17.414	17.41			1.00	5.00
88) 4-Methyl-2-Pentanone	(1)	9.205(0.001)	43	852481	72.811	72.81			3.00	10.00
93) Toluene	(2)	9.420(0.000)	92	284305	19.621	19.62			0.70	5.00
94) trans-1,3-Dichloropropene	(2)	9.674(0.000)	75	169314	18.249	18.25			1.00	5.00
96) 1,1,2-Trichloroethane	(2)	9.874(0.000)	97	109551	19.123	19.12			0.80	5.00
97) Tetrachloroethene	(2)	10.034(0.000)	166	124515	20.249	20.25			0.80	5.00
98) 1,3-Dichloropropane	(2)	10.047(0.000)	76	193947	19.079	19.08			1.00	5.00
101) Dibromochloromethane	(2)	10.282(0.000)	129	110453	18.087	18.09			1.00	5.00
103) 1,2-Dibromoethane	(2)	10.391(0.000)	107	120433	18.556	18.56			1.00	5.00
105) Chlorobenzene	(2)	10.874(0.000)	112	324125	19.567	19.57			0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)	10.948(0.000)	131	107497	18.954	18.95			1.00	5.00
107) Ethylbenzene	(2)	10.977(0.000)	91	571570	20.633	20.63			0.80	5.00
108) m+p-Xylene	(2)	11.083(0.000)	106	423699	40.026	40.03			0.80	5.00
110) o-Xylene	(2)	11.427(0.000)	106	207938	20.149	20.15			0.80	5.00
111) Styrene	(2)	11.436(0.000)	104	338459	19.675	19.68			1.00	5.00
113) Bromoform	(2)	11.591(0.000)	173	78502	16.443	16.44			1.00	5.00
114) Isopropylbenzene	(2)	11.735(0.000)	105	545615	21.332	21.33			1.00	5.00
121) 1,1,2,2-Tetrachloroethane	(3)	11.964(0.000)	83	179027	19.661	19.66			1.00	5.00
122) Bromobenzene	(3)	11.980(0.000)	156	140578	20.957	20.96			1.00	5.00
123) 1,2,3-Trichloropropane	(3)	11.999(0.000)	110	49674	19.085	19.08			1.00	5.00
125) n-Propylbenzene	(3)	12.063(0.000)	120	156602	21.442	21.44			1.00	5.00
127) 2-Chlorotoluene	(3)	12.134(0.000)	126	130532	20.977	20.98			1.00	5.00

File: /chem/HP09915.i/10mar23a.b/lm23s08.d

Sample: PA19DMSD;5932517;1;3;MSD; ; ; ; ;

Injected At:23-MAR-2010 14:12

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch:L100821AA

Analyst:LCP00895

Instrument ID:HP09915.1

Standard Reference: lm23c01.d

Prep Factor:1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
128) 1,3,5-Trimethylbenzene	(3)	12.195	(0.000)	120	223103	21.172	21.17			1.00	5.00
129) 4-Chlorotoluene	(3)	12.214	(0.000)	126	136719	20.722	20.72			1.00	5.00
131) tert-Butylbenzene	(3)	12.449	(0.000)	134	104568	21.485	21.48			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)	12.481	(0.000)	105	489029	21.893	21.89			1.00	5.00
134) sec-Butylbenzene	(3)	12.610	(0.000)	134	120546	21.600	21.60			1.00	5.00
135) 1,3-Dichlorobenzene	(3)	12.697	(0.000)	146	267124	20.659	20.66			1.00	5.00
136) p-Isopropyltoluene	(3)	12.713	(0.000)	134	135638	20.903	20.90			1.00	5.00
139) 1,4-Dichlorobenzene	(3)	12.761	(0.000)	146	273137	19.890	19.89			1.00	5.00
144) n-Butylbenzene	(3)	13.005	(0.000)	92	253300	21.357	21.36			1.00	5.00
145) 1,2-Dichlorobenzene	(3)	13.034	(0.000)	146	255943	20.213	20.21			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)	13.571	(0.000)	75	36383	18.818	18.82			2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)	14.128	(0.000)	180	201566	21.237	21.24			1.00	5.00
149) Hexachlorobutadiene	(3)	14.230	(0.000)	225	94746	22.551	22.55			2.00	5.00
150) Naphthalene	(3)	14.298	(0.000)	128	577980	20.849	20.85			1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)	14.452	(0.000)	180	180162	20.488	20.49			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: Client

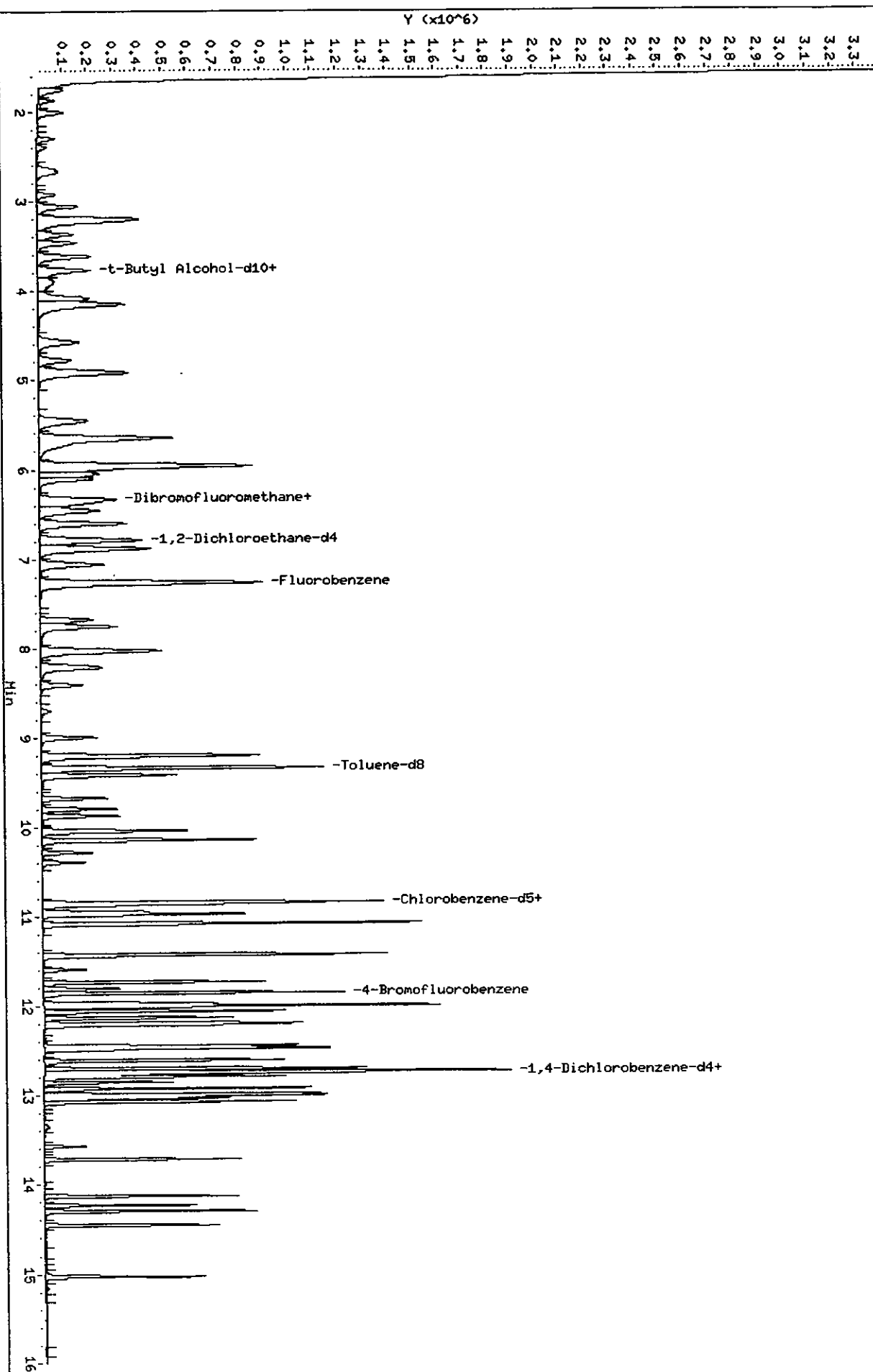
Analyst: YCP89V Date: 3.23.11

Auditor:  Date: 3/28/10

Data File: /chem/HP09915.i/10mar23a.b/1m23s08.d
Date: 23-MAR-2010 14:12
Client ID: PA19DHSD
Sample Info: PA19DHSD:6932617;1;3;HSD;????
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: LCP00895
Column diameter: 0.25

/chem/HP09915.i/10mar23a.b/1m23s08.d



PTL05 0293

suppat
3/23/10

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s08.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 14:12 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 14:51 lcp00895
Sample Name: PA19DMSD Lab Sample ID: 5932517

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)	1.758	85	142941	15.924
3) Chloromethane	(1)	1.874	50	89548	15.644
4) Vinyl Chloride	(1)	1.993	62	99659	18.630
7) Bromomethane	(1)	2.295	94	57404	15.270
9) Chloroethane	(1)	2.395	64	41553	13.585
11) Trichlorofluoromethane	(1)	2.671	101	190789	19.883
17) 1,1-Dichloroethene	(1)	3.196	96	148346	29.647
20) Acetone	(1)	3.221	43	400755	137.781
29) Methylene Chloride	(1)	3.768	84	128900	20.519
30) *t-Butyl Alcohol-d10	(4)	3.797	65	201794	250.000
33) trans-1,2-Dichloroethene	(1)	4.147	96	124404	20.914
34) Methyl Tertiary Butyl Ether	(1)	4.160	73	373716	18.756
37) 1,1-Dichloroethane	(1)	4.777	63	232906	21.339
44) cis-1,2-Dichloroethene	(1)	5.642	96	130586	20.697
47) 2-Butanone	(1)	5.652	43	649305	123.768
45) 2,2-Dichloropropane	(1)	5.658	77	169824	20.841
50) Bromochloromethane	(1)	5.990	128	61494	19.512
53) Chloroform	(1)	6.109	83	220673	20.929
56) 1,1,1-Trichloroethane	(1)	6.372	97	212812	21.474
60) 1,1-Dichloropropene	(1)	6.597	75	168311	20.451
61) Carbon Tetrachloride	(1)	6.610	117	155745	20.816
67) Benzene	(1)	6.883	78	463088	19.070
68) 1,2-Dichloroethane	(1)	6.896	62	168002	19.200
72) *Fluorobenzene	(1)	7.266	96	1024055	50.000
76) Trichloroethene	(1)	7.758	95	127834	20.459
79) 1,2-Dichloropropane	(1)	8.047	63	129353	19.024
80) Dibromomethane	(1)	8.192	93	84144	19.076
84) Bromodichloromethane	(1)	8.414	83	146316	19.459
87) cis-1,3-Dichloropropene	(1)	9.002	75	174987	17.414
88) 4-Methyl-2-Pentanone	(1)	9.205	43	852481	72.811
93) Toluene	(2)	9.420	92	284305	19.621
94) trans-1,3-Dichloropropene	(2)	9.674	75	169314	18.249
96) 1,1,2-Trichloroethane	(2)	9.874	97	109551	19.123
97) Tetrachloroethene	(2)	10.034	166	124515	20.249

PTL05 0294

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s08.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 14:12 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 14:51 lcp00895

Sample Name: PA19DMSD

Lab Sample ID: 5932517

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
98) 1,3-Dichloropropane	(2)	10.047	76	193947	19.079
101) Dibromochloromethane	(2)	10.282	129	110453	18.087
103) 1,2-Dibromoethane	(2)	10.391	107	120433	18.556
104) *Chlorobenzene-d5	(2)	10.845	117	725400	50.000
105) Chlorobenzene	(2)	10.874	112	324125	19.567
106) 1,1,1,2-Tetrachloroethane	(2)	10.948	131	107497	18.954
107) Ethylbenzene	(2)	10.977	91	571570	20.633
108) m+p-Xylene	(2)	11.083	106	423699	40.026
110) o-Xylene	(2)	11.427	106	207938	20.149
111) Styrene	(2)	11.436	104	338459	19.675
113) Bromoform	(2)	11.591	173	78502	16.443
114) Isopropylbenzene	(2)	11.735	105	545615	21.332
121) 1,1,2,2-Tetrachloroethane	(3)	11.964	83	179027	19.661
122) Bromobenzene	(3)	11.980	156	140578	20.957
123) 1,2,3-Trichloropropane	(3)	11.999	110	49674	19.085
125) n-Propylbenzene	(3)	12.063	120	156602	21.442
127) 2-Chlorotoluene	(3)	12.134	126	130532	20.977
128) 1,3,5-Trimethylbenzene	(3)	12.195	120	223103	21.172
129) 4-Chlorotoluene	(3)	12.214	126	136719	20.722
131) tert-Butylbenzene	(3)	12.449	134	104568	21.485
133) 1,2,4-Trimethylbenzene	(3)	12.481	105	489029	21.893
134) sec-Butylbenzene	(3)	12.610	134	120546	21.600
135) 1,3-Dichlorobenzene	(3)	12.697	146	267124	20.659
136) p-Isopropyltoluene	(3)	12.713	134	135638	20.903
138) *1,4-Dichlorobenzene-d4	(3)	12.745	152	398786	50.000
139) 1,4-Dichlorobenzene	(3)	12.761	146	273137	19.890
144) n-Butylbenzene	(3)	13.005	92	253300	21.357
145) 1,2-Dichlorobenzene	(3)	13.034	146	255943	20.213
146) 1,2-Dibromo-3-Chloropropane	(3)	13.571	75	36383	18.818
148) 1,2,4-Trichlorobenzene	(3)	14.128	180	201566	21.237
149) Hexachlorobutadiene	(3)	14.230	225	94746	22.551
150) Naphthalene	(3)	14.298	128	577980	20.849
152) 1,2,3-Trichlorobenzene	(3)	14.452	180	180162	20.488
54) \$Dibromofluoromethane	(1)	6.330	113	255969	51.020

PTL05 0295

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23s08.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 14:12 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: MWH
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 14:51 lcp00895
Sample Name: PA19DMSD Lab Sample ID: 5932517

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
64)\$1,2-Dichloroethane-d4	(1)	6.797	102	57605	49.775
90)\$Toluene-d8	(2)	9.340	98	976210	50.702
119)\$4-Bromofluorobenzene	(2)	11.858	95	358738	49.955

\$ = Compound is a surrogate standard.

LCSL72

Lancaster Laboratories Quantitation Report GC/MS Volatiles

LCSL72

File: /chem/HP09915.1/10mar23a.b/lm23101.d
Sample: LCSL72;LCSL72;1;3;LCS; ; ; ; ;
Injected At: 23-MAR-2010 10:58
Calibration Time: 17-FEB-2010 21:34
Target Method: L8260W.m
Blank Reference: lm23b02.d
Sublist: 8260W-2MNFRT

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: L100821AA
Analyst: LCP00895
Instrument ID: HP09915.1
Standard Reference: lm23c01.d
Prep Factor: 1.00
Units: ug/L
Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.777(0.003)	683	65	223148(30)	250.00	
72) Fluorobenzene	7.260(0.000)	1766	96	1094186(4)	50.00	
104) Chlorobenzene-d5	10.845(0.000)	2881	117	789152(4)	50.00	
138) 1,4-Dichlorobenzene-d4	12.745(0.000)	3472	152	434378(0)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.321(0.000)	113	273055	50.937	102%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.787(0.001)	102	61639	49.846	100%		77 - 113
90) Toluene-d8	(2)	9.340(0.000)	98	1037266	49.521	99%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.857(0.000)	95	384154	49.173	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)	1.752(0.000)	85	129727	13.526	13.53		2.00	5.00	
3) Chloromethane	(1)	1.864(0.002)	50	76283	12.473	12.47		1.00	5.00	
4) Vinyl Chloride	(1)	1.986(0.001)	62	83371	14.586	14.59		1.00	5.00	
7) Bromomethane	(1)	2.285(0.003)	94	53438	13.304	13.30		1.00	5.00	
9) Chloroethane	(1)	2.382(0.002)	64	38526	11.738	11.74		1.00	5.00	
11) Trichlorofluoromethane	(1)	2.668(0.001)	101	169625	16.544	16.54		2.00	5.00	
13) Ethyl Ether	(1)	2.906(0.001)	59	100852	22.945	22.94		2.00	5.00	
16) Acrolein	(4)	3.044(0.003)	56	282057	145.734	145.73		40.00	100.00	
17) 1,1-Dichloroethene	(1)	3.179(0.001)	96	103082	19.281	19.28		0.80	5.00	
18) Freon 113	(1)	3.205(0.001)	101	109781	19.701	19.70		2.00	10.00	
20) Acetone	(1)	3.211(0.000)	43	417599	134.370	134.37		6.00	20.00	
21) 2-Propanol	(4)	3.356(0.003)	45	101051	132.272	132.27		50.00	100.00	
23) Methyl Iodide	(1)	3.366(0.000)	142	198199	17.766	17.77		1.00	5.00	
24) Carbon Disulfide	(1)	3.453(0.001)	76	331678	17.903	17.90		1.00	5.00	
28) Allyl Chloride	(1)	3.600(0.000)	41	197301	19.160	19.16		1.00	5.00	
26) Methyl Acetate	(1)	3.613(0.000)	43	141969	18.255	18.25		1.00	5.00	
29) Methylene Chloride	(1)	3.752(0.001)	84	124921	18.611	18.61		2.00	5.00	
31) t-Butyl Alcohol	(4)	3.880(0.003)	59	214434	177.714	177.71		10.00	80.00	
32) Acrylonitrile	(1)	4.060(0.002)	53	347453	86.303	86.30		4.00	20.00	
33) trans-1,2-Dichloroethene	(1)	4.134(0.001)	96	118053	18.574	18.57		0.80	5.00	
34) Methyl Tertiary Butyl Ether	(1)	4.144(0.000)	73	370893	17.422	17.42		0.50	5.00	
35) n-Hexane	(1)	4.555(0.001)	57	166585	19.503	19.50		2.00	5.00	
43) 1,2-Dichloroethene (total)	(1)		96	243815	37.228	37.23		0.80	5.00	
37) 1,1-Dichloroethane	(1)	4.758(0.001)	63	221613	19.003	19.00		1.00	5.00	

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

LCSL72

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL72

File: /chem/HP09915.1/10mar23a.b/lm23101.d
Sample: LCSL72;LCSL72;1:3;LCS;::::;
Injected At: 23-MAR-2010 10:58
Calibration Time: 17-FEB-2010 21:34
Target Method: L8260W.m
Blank Reference: lm23b02.d
Sublist: 8260W-2MNFRT

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: L100821AA
Analyst: LCP00895
Instrument ID: HP09915.1
Standard Reference: lm23c01.d
Prep Factor: 1.00
Units: ug/L
Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S.		RT (+/-RRT)	QIon	Area	Conc.	Conc.	Blank	Reporting		
	Ref.					(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
40) di-Isopropyl Ether	(1)	4.893(0.000)	45	409204	17.571	17.57			0.80	5.00	
41) 2-Chloro-1,3-Butadiene	(1)	4.912(0.000)	53	182245	18.627	18.63			1.00	5.00	
42) Ethyl t-Butyl Ether	(1)	5.446(0.000)	59	360471	17.255	17.26			0.80	5.00	
44) cis-1,2-Dichloroethene	(1)	5.629(0.001)	96	125762	18.654	18.65			0.80	5.00	
47) 2-Butanone	(1)	5.649(0.000)	43	715064	127.567	127.57			3.00	10.00	
45) 2,2-Dichloropropane	(1)	5.649(0.000)	77	156668	17.994	17.99			1.00	5.00	
48) Propionitrile	(4)	5.723(0.001)	54	203809	132.420	132.42			30.00	100.00	
49) Methacrylonitrile	(1)	5.954(0.000)	67	524428	126.005	126.00			10.00	50.00	
50) Bromochloromethane	(1)	5.967(0.001)	128	58481	17.367	17.37			1.00	5.00	
51) Tetrahydrofuran	(4)	6.041(0.001)	71	109286	83.567	83.57			4.00	10.00	
53) Chloroform	(1)	6.096(0.001)	83	197887	17.565	17.56			0.80	5.00	
56) 1,1,1-Trichloroethane	(1)	6.362(0.001)	97	192093	18.141	18.14			0.80	5.00	
57) Cyclohexane	(1)	6.452(0.001)	56	195340	18.058	18.06			2.00	5.00	
60) 1,1-Dichloropropene	(1)	6.588(0.002)	75	155928	17.732	17.73			1.00	5.00	
61) Carbon Tetrachloride	(1)	6.600(0.000)	117	143477	17.947	17.95			1.00	5.00	
63) Isobutyl Alcohol	(4)	6.771(0.001)	41	174266	409.166	409.17			100.00	250.00	
67) Benzene	(1)	6.877(0.000)	78	448148	17.272	17.27			0.50	5.00	
68) 1,2-Dichloroethane	(1)	6.893(0.000)	62	165981	17.753	17.75			1.00	5.00	
71) t-Amyl Methyl Ether	(1)	7.057(0.000)	73	324620	16.172	16.17			0.80	5.00	
73) n-Heptane	(1)	7.279(0.000)	43	165417	18.019	18.02			2.00	5.00	
75) n-Butanol	(4)	7.681(0.000)	56	286268	794.672	794.67			100.00	250.00	
76) Trichloroethene	(1)	7.755(0.000)	95	121715	18.231	18.23			1.00	5.00	
77) Methylcyclohexane	(1)	8.022(0.000)	83	201132	18.623	18.62			1.00	5.00	
79) 1,2-Dichloropropane	(1)	8.041(0.000)	63	130199	17.921	17.92			1.00	5.00	

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

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PTL65 8298

LCSL72

Lancaster Laboratories Quantitation Report GC/MS Volatiles

LCSL72

File: /chem/HP09915.i/10mar23a.b/lm23101.d

Sample: LCSL72;LCSL72;1;3;LCS;::;

Injected At: 23-MAR-2010 10:58

Calibration Time: 17-FEB-2010 21:34

Target Method: L8260W.m

Blank Reference: lm23b02.d

Sublist: 8260W-2MNFRT

Sample Concentration Formula: On-Column Amount * (Vt/Vo)

Batch: L100821AA

Analyst: LCP00895

Instrument ID: HP09915.i

Standard Reference: lm23c01.d

Prep Factor: 1.00

Units: ug/L

Matrix: WATER

Level: Low

Sample Wt./Vol.: 5.0000 ml (Vo)

Volume Purged: 5.0 ml (Vt)

Bottle Code:

Target Compounds	I.S.		QIon	Area	Conc.	Conc.	Blank	Reporting	
	Ref.	RT (+/-RRT)			(on column)	(in sample)		Conc.	Qual.
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
80) Dibromomethane	(1)	8.195(0.000)	93	84966	18.028	18.03		1.00	5.00
82) Methyl Methacrylate	(1)	8.224(0.000)	69	112586	16.776	16.78		1.00	5.00
83) 1,4-Dioxane	(4)	8.224(0.003)	88	46182	403.934	403.93		70.00	250.00
84) Bromodichloromethane	(1)	8.407(0.000)	83	147168	18.318	18.32		1.00	5.00
85) 2-Nitropropane	(1)	8.697(0.000)	41	34434	14.263	14.26		2.00	10.00
86) 2-Chloroethyl Vinyl Ether	(1)	8.816(0.000)	63	95616	16.652	16.65		2.00	10.00
87) cis-1,3-Dichloropropene	(1)	8.999(0.000)	75	184649	17.198	17.20		1.00	5.00
88) 4-Methyl-2-Pentanone	(1)	9.205(0.000)	43	889485	71.102	71.10		3.00	10.00
93) Toluene	(2)	9.420(0.000)	92	273776	17.368	17.37		0.70	5.00
94) trans-1,3-Dichloropropene	(2)	9.671(0.000)	75	178938	17.728	17.73		1.00	5.00
95) Ethyl Methacrylate	(2)	9.790(0.000)	69	192501	17.215	17.22		1.00	5.00
96) 1,1,2-Trichloroethane	(2)	9.867(0.000)	97	113982	18.289	18.29		0.80	5.00
97) Tetrachloroethene	(2)	10.031(0.000)	166	120040	17.945	17.94		0.80	5.00
98) 1,3-Dichloropropane	(2)	10.047(0.000)	76	199167	18.009	18.01		1.00	5.00
100) 2-Hexanone	(2)	10.144(0.000)	43	673425	64.792	64.79		3.00	10.00
101) Dibromochloromethane	(2)	10.282(0.000)	129	116995	17.611	17.61		1.00	5.00
103) 1,2-Dibromoethane	(2)	10.391(0.000)	107	122179	17.304	17.30		1.00	5.00
105) Chlorobenzene	(2)	10.870(0.000)	112	319418	17.725	17.73		0.80	5.00
106) 1,1,1,2-Tetrachloroethane	(2)	10.947(0.000)	131	107864	17.482	17.48		1.00	5.00
107) Ethylbenzene	(2)	10.976(0.000)	91	549371	18.230	18.23		0.80	5.00
108) m+p-Xylene	(2)	11.082(0.000)	106	406182	35.272	35.27		0.80	5.00
112) Xylene (Total)	(2)		106	605032	52.983	52.98		0.80	5.00
110) o-Xylene	(2)	11.427(0.000)	106	198850	17.711	17.71		0.80	5.00
111) Styrene	(2)	11.436(0.000)	104	334546	17.877	17.88		1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

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PTL65 0299

LCSL72

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL72

File: /chem/HP09915.1/10mar23a.b/lm23101.d
Sample: LCSL72;LCSL72;1;3;LCS;;;;;
Injected At: 23-MAR-2010 10:58
Calibration Time: 17-FEB-2010 21:34
Target Method: L8260W.m
Blank Reference: lm23b02.d
Sublist: 8260W-2MNFRT

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: L100821AA
Analyst: LCP00895
Instrument ID: HP09915.1
Standard Reference: lm23c01.d
Prep Factor: 1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S.		RT (+/-RRT)	QIon	Area	Conc.	Conc.	Blank	Reporting		
	Ref.					(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
113) Bromoform	(2)	11.591	(0.000)	173	86287	16.613	16.61			1.00	5.00
114) Isopropylbenzene	(2)	11.735	(0.000)	105	517761	18.608	18.61			1.00	5.00
117) Cyclohexanone	(4)	11.806	(0.002)	55	158508	389.986	389.99			55.00	250.00
121) 1,1,2,2-Tetrachloroethane	(3)	11.963	(0.000)	83	181494	18.299	18.30			1.00	5.00
122) Bromobenzene	(3)	11.983	(0.000)	156	137924	18.876	18.88			1.00	5.00
123) 1,2,3-Trichloropropane	(3)	12.002	(0.000)	110	51281	18.088	18.09			1.00	5.00
124) trans-1,4-Dichloro-2-Butene	(3)	12.005	(0.000)	53	279814	94.737	94.74			15.00	50.00
125) n-Propylbenzene	(3)	12.060	(0.000)	120	148894	18.716	18.72			1.00	5.00
127) 2-Chlorotoluene	(3)	12.134	(0.000)	126	128821	19.006	19.01			1.00	5.00
128) 1,3,5-Trimethylbenzene	(3)	12.198	(0.000)	120	211219	18.402	18.40			1.00	5.00
129) 4-Chlorotoluene	(3)	12.217	(0.000)	126	131942	18.360	18.36			1.00	5.00
131) tert-Butylbenzene	(3)	12.446	(0.000)	134	99731	18.812	18.81			1.00	5.00
132) Pentachloroethane	(3)	12.465	(0.000)	167	81247	18.293	18.29			1.00	5.00
133) 1,2,4-Trimethylbenzene	(3)	12.481	(0.000)	105	466995	19.193	19.19			1.00	5.00
134) sec-Butylbenzene	(3)	12.610	(0.000)	134	113126	18.610	18.61			1.00	5.00
135) 1,3-Dichlorobenzene	(3)	12.697	(0.000)	146	260908	18.525	18.52			1.00	5.00
136) p-Isopropyltoluene	(3)	12.713	(0.000)	134	129313	18.296	18.30			1.00	5.00
139) 1,4-Dichlorobenzene	(3)	12.761	(0.000)	146	267689	17.896	17.90			1.00	5.00
137) 1,2,3-Trimethylbenzene	(3)	12.793	(0.000)	120	203319	18.568	18.57			1.00	5.00
140) Benzyl Chloride	(3)	12.854	(0.000)	91	317613	17.339	17.34			1.00	5.00
141) 1,3-Diethylbenzene	(3)	12.925	(0.000)	119	289505	18.489	18.49			1.00	5.00
142) 1,4-Diethylbenzene	(3)	12.986	(0.000)	119	285844	18.539	18.54			1.00	5.00
144) n-Butylbenzene	(3)	13.008	(0.000)	92	237336	18.371	18.37			1.00	5.00
145) 1,2-Dichlorobenzene	(3)	13.034	(0.000)	146	251548	18.238	18.24			1.00	5.00

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 4 of 5

PTL05 0300

File: /chem/HP09915.1/10mar23a.b/lm23l01.d
Sample: LCSL72;LCSL72;1;3;LCS; ; ; ; ;
Injected At: 23-MAR-2010 10:58
Calibration Time: 17-FEB-2010 21:34
Target Method: L8260W.m
Blank Reference: lm23b02.d
Sublist: 8260W-2MNFRT

Sample Concentration Formula: On-Column Amount * (Vt/Vo)	
Batch: L100821AA	Matrix: WATER
Analyst: LCP00895	Level: Low
Instrument ID: HP09915.1	Sample Wt./Vo
Standard Reference: 1m23c01.d	Volume Purged
Prep Factor: 1.00	
Units: ug/L	Bottle Code:

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:

Target Compounds	I. S.				Conc.	Conc.	Blank	Reporting			
	Ref.	RT	(+/-RRT)	QIon	Area	(on column)	(in sample)	Conc.	Qual.	Limit	LOQ
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
143) 1,2-Diethylbenzene	(3)	13.073	(0.000)	119	232736	18.335	18.33			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)	13.568	(0.000)	75	37637	17.871	17.87			2.00	5.00
148) 1,2,4-Trichlorobenzene	(3)	14.127	(0.000)	180	198217	19.173	19.17			1.00	5.00
149) Hexachlorobutadiene	(3)	14.230	(0.000)	225	86759	18.958	18.96			2.00	5.00
150) Naphthalene	(3)	14.298	(0.000)	128	585819	19.400	19.40			1.00	5.00
152) 1,2,3-Trichlorobenzene	(3)	14.452	(0.000)	180	183433	19.151	19.15			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

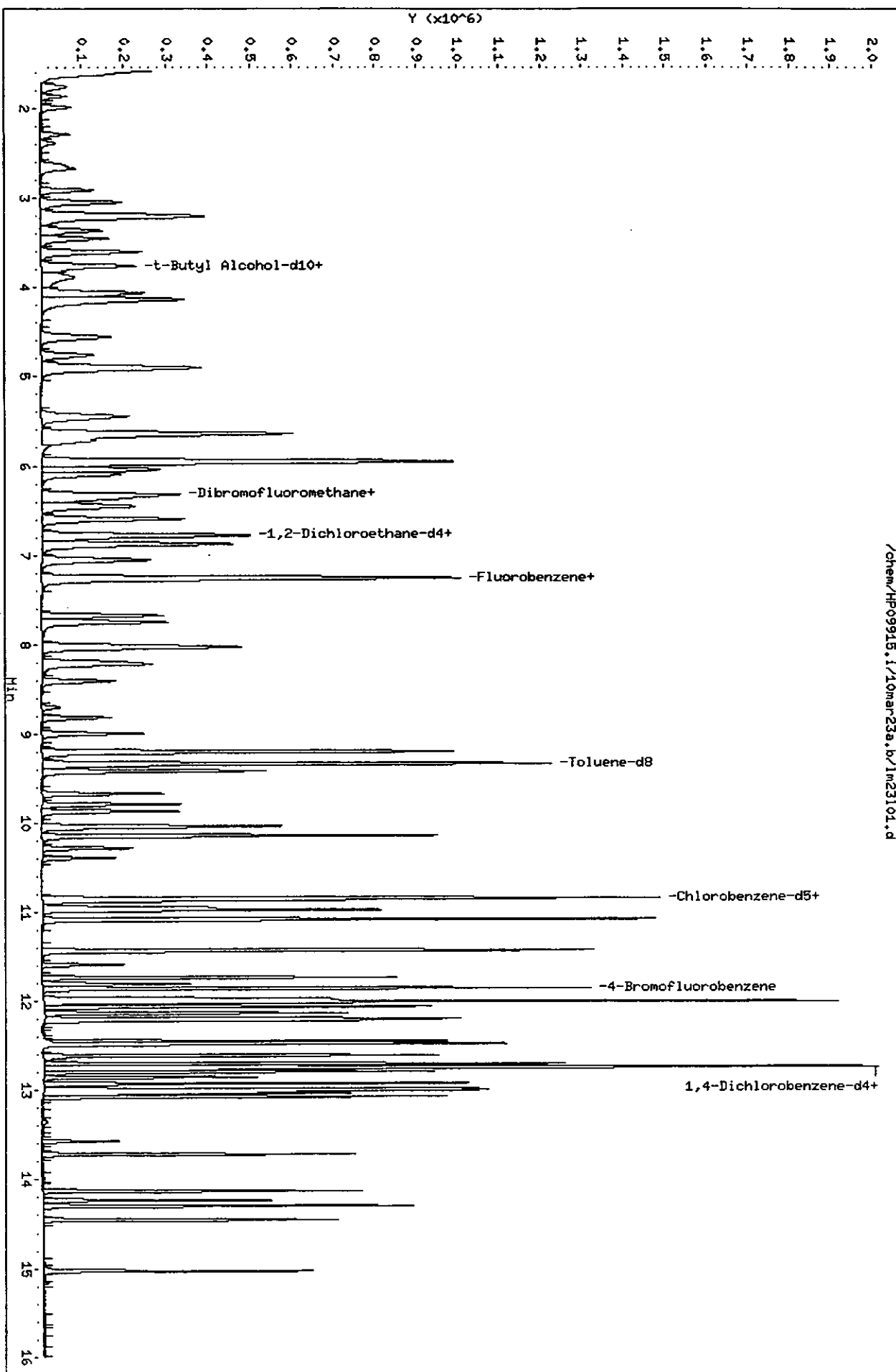
Comments: _____

Analyst: _____ Date: 3/2/00

Auditor: _____ Date: 9/11/00

Instrument: HP09915.i
Operator: LCP00895
Column diameter: 0.25

Page 1



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23l01.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 10:58 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: 8260W-2MNFRT
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 11:19 Automation
Sample Name: LCSL72 Lab Sample ID: LCSL72

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
2) Dichlorodifluoromethane	(1)	1.752	85	129727	13.526
3) Chloromethane	(1)	1.864	50	76283	12.473
4) Vinyl Chloride	(1)	1.986	62	83371	14.586
7) Bromomethane	(1)	2.285	94	53438	13.304
9) Chloroethane	(1)	2.382	64	38526	11.738
11) Trichlorofluoromethane	(1)	2.668	101	169625	16.544
13) Ethyl Ether	(1)	2.906	59	100852	22.945
16) Acrolein	(4)	3.044	56	282057	145.734
17) 1,1-Dichloroethene	(1)	3.179	96	103082	19.281
18) Freon 113	(1)	3.205	101	109781	19.701
20) Acetone	(1)	3.211	43	417599	134.370
21) 2-Propanol	(4)	3.356	45	101051	132.273
23) Methyl Iodide	(1)	3.366	142	198199	17.766
24) Carbon Disulfide	(1)	3.453	76	331678	17.903
28) Allyl Chloride	(1)	3.600	41	197301	19.160
26) Methyl Acetate	(1)	3.613	43	141969	18.255
29) Methylene Chloride	(1)	3.752	84	124921	18.612
30) *t-Butyl Alcohol-d10	(4)	3.777	65	223148	250.000
31) t-Butyl Alcohol	(4)	3.880	59	214434	177.715
32) Acrylonitrile	(1)	4.060	53	347453	86.303
33) trans-1,2-Dichloroethene	(1)	4.134	96	118053	18.574
34) Methyl Tertiary Butyl Ether	(1)	4.144	73	370893	17.422
35) n-Hexane	(1)	4.555	57	166585	19.503
43) 1,2-Dichloroethene (total)	(1)		96	243815	37.228
37) 1,1-Dichloroethane	(1)	4.758	63	221613	19.003
40) di-Isopropyl Ether	(1)	4.893	45	409204	17.571
41) 2-Chloro-1,3-Butadiene	(1)	4.912	53	182245	18.627
42) Ethyl t-Butyl Ether	(1)	5.446	59	360471	17.255
44) cis-1,2-Dichloroethene	(1)	5.629	96	125762	18.654
47) 2-Butanone	(1)	5.649	43	715064	127.567
45) 2,2-Dichloropropane	(1)	5.649	77	156668	17.994
48) Propionitrile	(4)	5.723	54	203809	132.420
49) Methacrylonitrile	(1)	5.954	67	524428	126.005
50) Bromochloromethane	(1)	5.967	128	58481	17.367

PTL05 0303

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23101.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 10:58 Analyst ID: LCP00895

Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: 8260W-2MNFRT
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 11:19 Automation

Sample Name: LCSL72

Lab Sample ID: LCSL72

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
51) Tetrahydrofuran	(4)	6.041	71	109286	83.567
53) Chloroform	(1)	6.096	83	197887	17.565
56) 1,1,1-Trichloroethane	(1)	6.362	97	192093	18.141
57) Cyclohexane	(1)	6.452	56	195340	18.058
60) 1,1-Dichloropropene	(1)	6.588	75	155928	17.732
61) Carbon Tetrachloride	(1)	6.600	117	143477	17.947
63) Isobutyl Alcohol	(4)	6.771	41	174266	409.167
67) Benzene	(1)	6.877	78	448148	17.272
68) 1,2-Dichloroethane	(1)	6.893	62	165981	17.753
71) t-Amyl Methyl Ether	(1)	7.057	73	324620	16.172
72) *Fluorobenzene	(1)	7.260	96	1094186	50.000
73) n-Heptane	(1)	7.279	43	165417	18.019
75) n-Butanol	(4)	7.681	56	286268	794.671
76) Trichloroethene	(1)	7.755	95	121715	18.231
77) Methylcyclohexane	(1)	8.022	83	201132	18.623
79) 1,2-Dichloropropane	(1)	8.041	63	130199	17.921
80) Dibromomethane	(1)	8.195	93	84966	18.028
82) Methyl Methacrylate	(1)	8.224	69	112586	16.776
83) 1,4-Dioxane	(4)	8.224	88	46182	403.937
84) Bromodichloromethane	(1)	8.407	83	147168	18.318
85) 2-Nitropropane	(1)	8.697	41	34434	14.263
86) 2-Chloroethyl Vinyl Ether	(1)	8.816	63	95616	16.652
87) cis-1,3-Dichloropropene	(1)	8.999	75	184649	17.198
88) 4-Methyl-2-Pentanone	(1)	9.205	43	889485	71.102
93) Toluene	(2)	9.420	92	273776	17.368
94) trans-1,3-Dichloropropene	(2)	9.671	75	178938	17.728
95) Ethyl Methacrylate	(2)	9.790	69	192501	17.215
96) 1,1,2-Trichloroethane	(2)	9.867	97	113982	18.289
97) Tetrachloroethene	(2)	10.031	166	120040	17.945
98) 1,3-Dichloropropane	(2)	10.047	76	199167	18.009
100) 2-Hexanone	(2)	10.144	43	673425	64.792
101) Dibromochloromethane	(2)	10.282	129	116995	17.611
103) 1,2-Dibromoethane	(2)	10.391	107	122179	17.304
104) *Chlorobenzene-d5	(2)	10.845	117	789152	50.000

PTL05 0304

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23101.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 10:58 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: 8260W-2MNFRT
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 11:19 Automation
Sample Name: LCSL72 Lab Sample ID: LCSL72

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
105) Chlorobenzene	(2)	10.870	112	319418	17.725
106) 1,1,1,2-Tetrachloroethane	(2)	10.947	131	107864	17.482
107) Ethylbenzene	(2)	10.976	91	549371	18.230
108) m+p-Xylene	(2)	11.082	106	406182	35.272
112) Xylene (Total)	(2)		106	605032	52.983
110) o-Xylene	(2)	11.427	106	198850	17.711
111) Styrene	(2)	11.436	104	334546	17.877
113) Bromoform	(2)	11.591	173	86287	16.613
114) Isopropylbenzene	(2)	11.735	105	517761	18.608
117) Cyclohexanone	(4)	11.806	55	158508	389.987
121) 1,1,2,2-Tetrachloroethane	(3)	11.963	83	181494	18.299
122) Bromobenzene	(3)	11.983	156	137924	18.876
123) 1,2,3-Trichloropropane	(3)	12.002	110	51281	18.088
124) trans-1,4-Dichloro-2-Butene	(3)	12.005	53	279814	94.737
125) n-Propylbenzene	(3)	12.060	120	148894	18.716
127) 2-Chlorotoluene	(3)	12.134	126	128821	19.006
128) 1,3,5-Trimethylbenzene	(3)	12.198	120	211219	18.402
129) 4-Chlorotoluene	(3)	12.217	126	131942	18.360
131) tert-Butylbenzene	(3)	12.446	134	99731	18.812
132) Pentachloroethane	(3)	12.465	167	81247	18.294
133) 1,2,4-Trimethylbenzene	(3)	12.481	105	466995	19.193
134) sec-Butylbenzene	(3)	12.610	134	113126	18.610
135) 1,3-Dichlorobenzene	(3)	12.697	146	260908	18.525
136) p-Isopropyltoluene	(3)	12.713	134	129313	18.296
138)*1,4-Dichlorobenzene-d4	(3)	12.745	152	434378	50.000
139) 1,4-Dichlorobenzene	(3)	12.761	146	267689	17.896
137) 1,2,3-Trimethylbenzene	(3)	12.793	120	203319	18.568
140) Benzyl Chloride	(3)	12.854	91	317613	17.339
141) 1,3-Diethylbenzene	(3)	12.925	119	289505	18.489
142) 1,4-Diethylbenzene	(3)	12.986	119	285844	18.539
144) n-Butylbenzene	(3)	13.008	92	237336	18.371
145) 1,2-Dichlorobenzene	(3)	13.034	146	251548	18.238
143) 1,2-Diethylbenzene	(3)	13.073	119	232736	18.335
146) 1,2-Dibromo-3-Chloropropane	(3)	13.568	75	37637	17.871

PTL05 0305

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/10mar23a.b/lm23101.d Instrument ID: HP09915.i
Injection date and time: 23-MAR-2010 10:58 Analyst ID: LCP00895
Method used: /chem/HP09915.i/10mar23a.b/L8260W.m Sublist used: 8260W-2MNFRT
Calibration date and time: 17-FEB-2010 21:34
Date, time and analyst ID of latest file update: 23-Mar-2010 11:19 Automation
Sample Name: LCSL72 Lab Sample ID: LCSL72

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
=====	=====	=====	=====	=====	=====
148) 1,2,4-Trichlorobenzene	(3)	14.127	180	198217	19.173
149) Hexachlorobutadiene	(3)	14.230	225	86759	18.958
150) Naphthalene	(3)	14.298	128	585819	19.400
152) 1,2,3-Trichlorobenzene	(3)	14.452	180	183433	19.151
54)\$Dibromofluoromethane	(1)	6.321	113	273055	50.937
64)\$1,2-Dichloroethane-d4	(1)	6.787	102	61639	49.846
90)\$Toluene-d8	(2)	9.340	98	1037266	49.521
119)\$4-Bromofluorobenzene	(2)	11.857	95	384154	49.173

\$ = Compound is a surrogate standard.

GC/MS Volatiles pH Log

Batch #: L100821AA

LLI#	pH	Date Checked	Initials/ Employee #	Comments
<u>5932500</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932504</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932505</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932512</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932515</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932516</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932517</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932501</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932502</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932503</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932506</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38B</u>
<u>5932507</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932508</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932509</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932510</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932511</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932513</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932514</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932518</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>
<u>5932519</u>	<u>12</u>	3/23/2010	KDP 2245	<u>38A</u>

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP09915 **HP #09**

** Shift #1 Analyst: CBE ** Shift #2 Analyst: ** Shift #3 Analyst:

Comment Code: R = Reinjection necessary X = Sample sent to be reextracted
 S = Surrogate problem I = Internal Standard problem
 NU = Not used F = Further dilution required
 MR = Meets requirements IUO = Internal use only
 Cz = Confirms z, (z = S, I or X) T = Injected outside valid tune period

Other problems or comments are as follows:

* _____ 8260B LARGE CURVE WATERS ICAL _____ *

* _____ *

* _____ *

* _____ *

* _____ *

Data Directory Path is - D:\DATA\10MAR04C\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
LM04T03.D	BFB FEB26-10	SONG BFB	04 Mar 10	11:54			MR
LM04I01.D	VSTD300	VSTD300	04 Mar 10	12:18			MR
LM04I02.D	VSTD100	VSTD100	04 Mar 10	12:40			MR
LM04I03.D	VSTD050	VSTD050	04 Mar 10	13:02			MR
LM04I04.D	VSTD020	VSTD020	04 Mar 10	13:24			MR
LM04I99.D	AIR	VSTD020	04 Mar 10	13:46		NU, CAROUSEL	ERROR
LM04I05.D	VSTD010	VSTD010	04 Mar 10	14:08			MR
LM04I06.D	VSTD004	VSTD004	04 Mar 10	14:29			NU
LM04M01.D	1PPB MDL	1 PPB MDL	04 Mar 10	14:51			MR
LM04I07.D	VSTD004	VSTD004	04 Mar 10	15:18			MR
LM04V01.D	LCSLICV	LCSLICV	04 Mar 10	15:59			MR

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP09915 **HP #09**

** Shift #1 Analyst: LCP ** Shift #2 Analyst: KDP ** Shift #3 Analyst: *

Comment Code: R = Reinjection necessary X = Sample sent to be reextracted
 S = Surrogate problem I = Internal Standard problem
 NU = Not used F = Further dilution required
 MR = Meets requirements IUO = Internal use only
 Cz = Confirms z, (z = S, I or X) T = Injected outside valid tune period

Other problems or comments are as follows:

Data Directory Path is - D:\DATA\10MAR23A\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
LM23X01.D	VSTD050	VSTD050	23 Mar 10	08:54			NU
LM23T01.D	BFB FEB26-10	50NG BFB	23 Mar 10	09:18			MR
LM23C01.D	VSTD050	VSTD050	23 Mar 10	09:39			MR
LM23B01.D	VLK72	VLK72	23 Mar 10	10:01	L100821AA		NU
LM23B02.D	VLK72	VLK72	23 Mar 10	10:23	L100821AA		MR
LM23L01.D	LCSL72	LCSL72	23 Mar 10	10:58	L100821AA		MR
LM23S01.D	PATE1	5932500	23 Mar 10	11:39	L100821AA		MR
LM23S02.D	PATT1	5932504	23 Mar 10	12:01	L100821AA		MR
LM23S03.D	PATE2	5932505	23 Mar 10	12:23	L100821AA		MR
LM23S04.D	PAEB2	5932512	23 Mar 10	12:45	L100821AA		MR
LM23S05.D	NYATB	5932886	23 Mar 10	13:07	L100821AA		MR
LM23S06.D	PA19D	5932515	23 Mar 10	13:28	L100821AA		MR
LM23S07.D	PA19DMS	5932516	23 Mar 10	13:50	L100821AA		MR
LM23S08.D	PA19DMSD	5932517	23 Mar 10	14:12	L100821AA		MR
LM23S09.D	PATP7	5932501	23 Mar 10	14:34	L100821AA		MR
LM23S10.D	PAT7A	5932502	23 Mar 10	14:56	L100821AA		MR
LM23S11.D	PAT10	5932503	23 Mar 10	15:18	L100821AA		F
LM23S12.D	PA15D	5932506	23 Mar 10	15:39	L100821AA		NU
LM23S13.D	PA16S	5932507	23 Mar 10	16:02	L100821AA		MR
LM23S14.D	PATD1	5932508	23 Mar 10	16:24	L100821AA		MR
LM23S15.D	PA17D	5932509	23 Mar 10	16:46	L100821AA		MR
LM23S16.D	PA18S	5932510	23 Mar 10	17:07	L100821AA		MR
LM23S17.D	PA18D	5932511	23 Mar 10	17:29	L100821AA		MR
LM23S18.D	PATD2	5932513	23 Mar 10	17:51	L100821AA		MR
LM23S19.D	PA19S	5932514	23 Mar 10	18:13	L100821AA		MR
LM23S20.D	PA20S	5932518	23 Mar 10	18:35	L100821AA		MR
LM23S21.D	PA20D	5932519	23 Mar 10	18:57	L100821AA		MR
LM23S22.D	NYA07	5932884	23 Mar 10	19:18	L100821AA		MR
LM23S24.D	PAT10DL	5932503	23 Mar 10	19:40	L100821AA		MR
LM23S25.D	PA15D	5932506	23 Mar 10	20:02	L100821AA		MR

FILE 05 MR 389

YES NO N/A

I. PACKAGE COMPLETENESS AND DELIVERABLES

CASE NUMBER: PLM01 LAB: Lancaster Laboratories

SITE NAME: GE - Patillas Puerto Rico

1.0 Data Completeness and Deliverables

1.1 Has all data been submitted in CLP deliverable
format or CLP Forms Equivalent? ☒

ACTION: If not, note the effect on review of the data in
the Data Assessment narrative.

2.0 Cover Letter, SDG Narrative

2.1 Is a laboratory narrative, and/or cover letter
signed release present? ☒

2.2 Are case number and SDG number(s) contained
in the narrative or cover letter? ☒

ACTION: If not, note the effect on review of the data in
the Data Assessment narrative.

II. VOLATILE ANALYSES

1.0 Traffic Reports and Laboratory Narrative

1.1 Are the Traffic Reports, and/or Chain of Custodies
from the field samplers present for all samples
sign release present? ☒

ACTION: If no, contact the laboratory/sampling team for replacement
of missing or illegible copies.

1.2 Is a sampling trip report present (if required)? ☒

1.3 Sample Conditions/Problems

YES NO N/A

1.3.1 Do the Traffic Reports, Chain of Custodies, or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special notations affecting the quality of the data? ☒

ACTION: If all the VOA vials for a sample have air bubbles or the VOA vial analyzed had air bubbles, flag all positive results "J" and all non-detects "R".

ACTION: If any sample analyzed as a soil, other than TCLP, contains 50%-90% water, all data should be flagged as estimated ("J"). If a soil sample, other than TCLP, contains more than 90% water, flag all positive results "J" and all non-detects "R".

ACTION: If samples were not iced or if the ice was melted upon receipt at the laboratory and the temperature of the cooler was elevated ($>10^{\circ}\text{C}$), flag all positive results "J" and all non-detects non"UJ".

2.0 Holding Times

2.1 Have any volatile holding times, determined from date of collection to date of analysis, been exceeded? ☒

The maximum holding time for aqueous samples is 14 days.

The maximum holding time for soils non aqueous samples is 14 days.

NOTE: If unpreserved, aqueous samples maintained at 4°C for aromatic hydrocarbons analysis must be analyzed within 7 days. If preserved with HCL acid to a $\text{pH}<2$ and stored at 4°C , then aqueous samples must be analyzed within 14 days from time of collection. For non-aqueous samples for volatile components that are frozen (less than 7°C) or are properly cooled ($4^{\circ}\text{C} \pm 2^{\circ}\text{C}$) and perserved with NaHSO_4 , the maximum holding time is 14 days from sample collection. If

YES NO N/A

uncertain about preservation, contact the laboratory /sampling team to determine whether or not samples were preserved.

ACTION: Qualify sample results according to Table 1:

Table 1. Holding Time Actions for Trace Volatile Analysis

Matrix	Preserved	Criteria	Action	
			Detected Associated Compounds	Non-Detected Associated Compounds
Aqueous	No	≤7 days	No qualifications	
	No	> 7 days	J	R
	Yes	≤14 days	No qualifications	
	Yes	> 14 days	J	R
Non Aqueous	No	≤ 14 days	J	R
	Yes	≤ 14 days	No qualifications	
	Yes/No	> 14 days	J	R

3.0 Surrogate Recovery (CLP Form II Equivalent)

3.1 Have the volatile surrogate recoveries been listed on Surrogate Recovery forms for each of the following matrices:

- a. Water ☒ ☐ ☐
- b. Soil ☐ ☐ ☒

3.2 If so, are all the samples listed on the appropriate Surrogate Recovery forms for each matrix:

- a. Water ☒ ☐ ☐
- b. Soil ☐ ☐ ☒

ACTION: If large errors exist, deliverables are unavailable or information is missing, document the effect(s) in Data

YES NO N/A

Assessments and contact the laboratory/project officer/appropriate official for an explanation /resubmittal, make any necessary corrections and document effect in the Data Assessment.

- 3.3 Were the surrogate recovery limits followed per Table 2. If Table 2 criteria were not followed, the laboratory may use in-house performance criteria (per SW-846, Method 8000C, section 9.7). Other compounds may be used as surrogates, depending upon the analysis requirements. ☒ ☐ ☐

Table 2. Surrogate Spike Recovery Limits for Water and Soil/Sediments

DMC	IN-HOUSE Recovery Limits (%) Water	Recovery Limits Soil/Sediment
4-Bromofluorobenzene	78-113% 80-120	70-130
Dibromofluoromethane	80-116% 80-120	70-130
Toluene-d ₈	80-113% 80-120	70-130
Dichloroethane-d ₄	77-113% 80-120	70-130

Note: Use above table if laboratory did not provide in house recovery criteria.

Note: Other compounds may be used as surrogated depending upon the analysis requirements.

- 3.4 Were outliers marked correctly with an asterisk? ☐ ☐ ☒

ACTION: Circle all outliers with a red pencil.

- 3.5 Were one or more volatile surrogate recoveries out of specification for any sample or method blank. Table 2. ☐ ☒ ☐

If yes, were samples reanalyzed? ☐ ☐ ☒

Were method blanks reanalyzed? ☐ ☐ ☒

YES NO N/A

ACTION: If all surrogate recoveries are > 10% but 1 or more compounds do not meet method specifications:

1. Flag all positive results as estimated ("J").
2. Flag all non-detects as estimated detection limits ("UJ") when recoveries are less than the lower acceptance limit.
3. If recoveries are greater than the upper acceptance limit, do not qualify non-detects, but qualify positive results as estimated "J".

If any surrogate has a recovery of < 10%:

1. Positive results are qualified with ("J").
2. Non-detects for that should be qualified as unusable ("R").

NOTE: Professional judgement should be used to qualify data that have method blank surrogate recoveries out of specification in both original and reanalyses. The basic concern is whether the blank problems represent an isolated problem with the blank alone or whether there is a fundamental problem with the analytical process. If one or more samples in the batch show acceptable surrogate recoveries, the reviewer may choose the blank problem to be an isolated occurrence.

3.6 Are there any transcription/calculation errors between raw data and reported data?

☐ ☒ ☐

ACTION: If large errors exist, take action as specified in section 3.2 above.

4.0 Laboratory Control Sample(Form III/Equivalent)

4.1 Is the LCS prepared, extracted, analyzed, and reported once for every 20 field samples of a similar matrix, per SDG.

☒ ☐ ☐

YES NO N/A

Note: LCS consists of an aliquot of a clean (control) matrix similar to the sample matrix and of the same weight or volume.

ACTION: If any Laboratory Control Sample data are missing, call the lab for explanation /resubmittals. Make note in the data assessment.

4.2 Were the Laboratory Control Samples analyzed at the required frequency for each of the following matrices:

A. Water	<input checked="" type="checkbox"/>	___	___
B. Soil	<input type="checkbox"/>	___	<u>X</u>
C. Med Soil	<input type="checkbox"/>	___	<u>X</u>

Note: The LCS is spiked with the same analytes at the same concentrations as the matrix spike (SW-846 8000C, Section 9.5). If different make note in data assessment. Matrix/LCS spiking standards should be prepared from volatile organic compounds which are representative of the compounds being investigating. At a minimum, the matrix spike should include 1,1-dichloroethene, trichloroethene, chlorobenzene, toluene, and benzene.

ACTION: If any MS/MD, MS/MSD or replicate data are missing, take the action specified in 3.2 above.

4.3 Have in house LCS recovery limits been developed (Method 8000C, Sect 9.7). ☒ ___ ___

4.4 If in house limits are not developed, are LCS acceptance recovery limits between 70 - 130% (Method 8000c Sect 9.5)? ☐ ___ X

4.5 Were one or more of the volatile LCS recoveries outside the in house laboratory recovery criteria for spiked analytes? If in house limits are not present use 70 - 130% recovery limits. ☐ X ___

YES NO N/A

Table 3. LCS Actions for Volatile Analysis

Criteria	Action	
	Detected Spiked Compounds	Non-Detected Spiked Compounds
%R > Upper Acceptance Limit	J	No Qualifiers
%R < Lower Acceptance Limit	J	UJ
Lower Acceptance Limit \leq %R	No Qualifications	

5.0 Matrix Spikes(Form III or equivalent)

5.1 Are all data for matrix spike and matrix duplicate or matrix spike duplicate (MS/MD or MS/MSD) present and complete for each matrix? ☒ ☐ ☐

NOTE: The laboratory should use one matrix spike and a duplicate analysis of an unspiked field sample if target analytes are expected in the sample. If the sample is not expected to contain target analytes, a MS/MSD should be analyzed (SW-846, Method 8260B, Sect 8.4.2).

5.2 Have MS/MD or MS/MSD results been summarized on modified CLP Form III? ☒ ☐ ☐

ACTION: If any data are missing take action as specified in section 3.2 above.

5.3 Were matrix spikes analyzed at the required frequency for each of the following matrices? (One MS/MD, MS/MSD or laboratory replicate must be performed for every 20 samples

YES NO N/A

of similar matrix or concentration level. Laboratories analyzing one to ten samples per month are required to analyze at least one MS per month [page 8000C, section 9.5.]

a.	Water	<input checked="" type="checkbox"/>	___	___
b.	Waste	<input type="checkbox"/>	___	<input checked="" type="checkbox"/>
c.	Soil/Solid	<input type="checkbox"/>	___	<input checked="" type="checkbox"/>

Note: The LCS is spiked with the same analytes at the same concentrations as the matrix spike (SW-846 8000C, Section 9.5). If different make note in data assessment. Matrix/LCS spiking standards should be prepared from volatile organic compounds which are representative of the compounds being investigating. At a minimum, the matrix spike should include 1,1-dichloroethene, trichloroethene, chlorobenzene, toluene, and benzene. The concentration of the LCS should be determined as described SW-Method 8000C Section 9.5.

ACTION: If any MS/MD, MS/MSD or replicate data are missing, take the action specified in 3.2 above.

5.4 Have in house MS recovery limits been developed (Method 8000C, Sect 9.7)for each matrix. ☒ ___ ___

5.5 Were one or more of the volatile MS/MSD recoveries outside of the in-house laboratory recovery criteria for spiked analytes? If none are present, then use 70-130% recovery as per SW-846, 8000C, Sect. 9.5.4. ☐ ☒ ___

ACTION: Circle all outliers with a red pencil.

NOTE: If any individual % recovery in the MS (or MSD) falls outside the designated range for recovery the reviewer should determine if there is a matrix effect. A matrix effect is indicated if the LCS data are within limits but the MS data exceeds the limits.

YES NO N/A

NOTE: No qualification of data is necessary on MS and MSD data alone. However, using informed professional judgement, the data reviewer may use MS and MSD results in conjunction with other QC criteria to determine the need for some qualifications.

Note: The data reviewer should first try to determine to what extent the results of the MS and MSD affect the associated data. This determination should be made with regard to the MS and MSD sample itself, as well as specific analytes for all samples associated with the MS and MSD.

Note: In those instances where it can be determined that the results of the MS and MSD affect only the sample spiked, limit qualification to this sample only. However, it may be determined through the MS and MSD results that a laboratory is having a systematic problem in the analysis of one or more analytes that affect all associated samples, and the reviewer must use professional judgement to qualify the data from all associated samples.

Note: The reviewer must use professional judgement to determine the need for qualification of non-spiked compounds.

ACTION: Follow criteria in Table 4 when professional judgement deems qualification of sample.

Table 4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Actions for Volatile Analysis

Criteria	Action	
	Detected Spiked Compounds	Non-Detected Spiked Compounds
%R > Upper Acceptance Limit	J	No Qualifiers
%R < Lower Acceptance Limit	J	UJ
Lower Acceptance Limit ≤ %R	No Qualifications	

YES NO N/A

6.0 Blank (CLP Form IV Equivalent)

6.1 Is the Method Blank Summary form present? ☒ ☐ ☐

6.2 Frequency of Analysis: Has a method blank been analyzed for every 20 (or less) samples of similar matrix or concentration or each extraction batch? ☒ ☐ ☐

6.3 Has a method blank been analyzed for each GC/MS system used ? ☒ ☐ ☐

ACTION: If any blank data are missing, take action as specified above (section 3.2). If blank data is not available, reject (R) all associated positive data. However, using professional judgement, the data reviewer may substitute field blank data for missing method blank data.

6.4 Chromatography: review the blank raw data - chromatograms, quant reports or data system printouts.

Is the chromatographic performance (baseline stability) for each instrument acceptable for volatile organic compounds? ☒ ☐ ☐

7.0 Contamination

NOTE: "Water blanks", "drill blanks" and "distilled water blanks" are validated like any other sample and are not used to qualify the data. Do not confuse them with the other QC blanks discussed below.

7.1 Do any method/instrument/reagent blanks have positive results for target analytes and/or TICs? When applied as described below, the contaminant concentration in these blanks are multiplied by the sample dilution factor and corrected for percent moisture where necessary. ☐ ☒ ☐

YES NO N/A

7.2 Do any field/rinse blanks have positive
volatile organic compound results?

 X

ACTION: Prepare a list of the samples associated with each
of the contaminated blanks. (Attach a separate
sheet.)

NOTE: All field blank results associated to a particular
group of samples (may exceed one per case or one
per day) may be used to qualify data. Blanks may
not be qualified because of contamination in
another blank. Field blanks must be qualified
for surrogate, or calibration QC problems.

ACTION: Follow the directions in Table 5 below to qualify
sample results due to contamination. Use the
largest value from all the associated blanks.

Table 5. Volatile Organic Analysis Blank Contamination Criteria

Blank Type	Blank Result	Sample Result	Action for Samples
Method, Storage, Field, Trip, Instrument**	Detects	Not detected	No qualification
	< CRQL*	< CRQL	Report CRQL value with a U
		≥ CRQL	Use professional judgement
	> CRQL*	< CRQL	Report CRQL value with a U
		≥ CRQL and < blank contamination	Report the concentration for the sample with a U, or quantify the data as unusable R
		≥ CRQL and ≥ blank contamination	Use professional judgement
	= CRQL*	< CRQL	Report CRQL value with a U
		≥ CRQL	Use professional judgement
	Gross contamination	Detects	Qualify results as unusable R

* 2x the CRQL for methylene chloride, 2-butanone, and acetone

** Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L.

NOTE: If gross blank contamination exists(e.g., saturated peaks, "hump-o-grams," "junk" peaks), all affected positive compounds in the associated samples should be qualified as unusable "R", due to interference. Non-detected volatile organic target compounds do not require qualification unless the contamination is so high that it interferes with the analyses of non-detected compounds.

YES NO N/A

7.3 Are there field/rinse/equipment blanks associated with every sample? ☒ ☐ ☐

ACTION: For low level samples, note in data assessment that there is no associated field/rinse/equipment blank. Exception: samples taken from a drinking water tap do not have associated field blanks.

8.0 GC/MS Apparatus and Materials

8.1 Did the lab use the proper gas chromatographic column(s) for analysis of volatiles by Method 8260B? Check raw data, instrument logs or contact the lab to determine what type of column(s) was (were) used. ☒ ☐ ☐

NOTE: For the analysis of volatiles, the method requires requires the use of 60 m. x 0.75 mm capillary column, coated with VOCOL(Supelco) or equivalent column. (see SW-846, page 8260B-7, section 4.9.2)

ACTION: If the specified column, or equivalent, was not used, document the effects in the Data Assessment. Use professional judgement to determine the acceptability of the data.

9.0 GC/MS Instrument Performance Check (CLP Form V Equivalent)

9.1 Are the GC/MS Instrument Performance Check forms present for Bromofluorobenzene (BFB), and do these forms list the associated samples with date/time analyzed? ☒ ☐ ☐

9.2 Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the BFB provided for each twelve hour shift? ☒ ☐ ☐

9.3 Has an instrument performance check solution (BFB)

YES NO N/A

been analyzed for every twelve hours of sample
analysis per instrument?(see Table 4, SW-846,
page 8260B-36)

☒ ☐ ☐

ACTION: List date, time, instrument ID, and sample
analyses for which no associated GC/MS GC/MS tuning data are
available.

ACTION: If the laboratory/project officer cannot provide missing
data, reject ("R") all data generated outside an acceptable
twelve hour calibration interval.

ACTION: If mass assignment is in error, flag all associated sample
data as unusable, "R".

9.4 Have the ion abundances been normalized to m/z 95?

☒ ☐ ☐

9.5 Have the ion abundance criteria been met for
each instrument used?

☒ ☐ ☐

ACTION: List all data which do not meet ion abundance
criteria (attach a separate sheet).

ACTION: If ion abundance criteria are not met, take action as
specified in section 3.2.

9.6 Are there any transcription/calculation errors
between mass lists and reported values? (Check at least
two values but if errors are found, check more.)

☒ ☐ ☐

9.7 Have the appropriate number of significant
figures (two) been reported?

☒ ☐ ☐

ACTION: If large errors exist, take action as specified in
section 3.2.

9.8 Are the spectra of the mass calibration compounds acceptable.

☒ ☐ ☐

ACTION: Use professional judgement to determine wheather associated
data should be accepted, qualified, or rejected.

YES NO N/A

10.0 Target Analytes (CLP Form I Equivalent)

10.1 Are the Organic Analysis reporting forms present with required header information on each page, for each of the following:

- | | | | | |
|----|---|-------------------------------------|-----|-----|
| a. | Samples and/or fractions as appropriate | <input checked="" type="checkbox"/> | ___ | ___ |
| b. | Matrix spikes and matrix spike duplicates | <input checked="" type="checkbox"/> | ___ | ___ |
| c. | Blanks | <input checked="" type="checkbox"/> | ___ | ___ |
| d. | Laboratory Control Samples | <input checked="" type="checkbox"/> | ___ | ___ |

10.2 Are the reconstructed Ion Chromatograms, mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?

- | | | | | |
|----|--|-------------------------------------|-----|-----|
| a. | Samples and/or fractions as appropriate | <input checked="" type="checkbox"/> | ___ | ___ |
| b. | Matrix spikes and matrix spike duplicates
(Mass spectra not required) | <input checked="" type="checkbox"/> | ___ | ___ |
| c. | Blanks | <input type="checkbox"/> | ___ | ___ |
| d. | Laboratory Control Samples | <input checked="" type="checkbox"/> | ___ | ___ |

ACTION: If any data are missing, take action specified in 3.2 above.

10.3 Is chromatographic performance acceptable with respect to:

- | | | | |
|---------------------|-------------------------------------|-----|-----|
| Baseline stability? | <input checked="" type="checkbox"/> | ___ | ___ |
|---------------------|-------------------------------------|-----|-----|

YES NO N/A

Resolution? ☒ ☐ ☐

Peak shape? ☒ ☐ ☐

Full-scale graph (attenuation)? ☒ ☐ ☐

Other: _____

ACTION: Use professional judgement to determine the acceptability of the data.

10.4 Are the lab-generated standard mass spectra of identified volatile compounds present for each sample? ☒ ☐ ☐

ACTION: If any mass spectra are missing, take action specified in 3.2 above. If the lab does not generate their own standard spectra, make a note in the Data Assessment. If spectra are missing, contact the lab.

10.5 Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration? ☒ ☐ ☐

10.6 Are all ions present in the standard mass spectrum at a relative intensity greater than 10% (of the most abundant ion) also present in the sample mass spectrum? ☒ ☐ ☐

10.7 Do the relative intensities of the characteristic ions in the sample agree within $\pm 30\%$ of the corresponding relative intensities in the reference spectrum? ☒ ☐ ☐

ACTION: Use professional judgement to determine acceptability of data. If it is determined that incorrect identifications were made, all such data should be rejected ("R"), flagged ("N") - Presumptive evidence of the presence of the compound) or changed to non detected ("U") at the calculated detection limit. In order to be

YES NO N/A

positively identified, the data must comply with the criteria listed in 9.6, 9.7, and 9.8.

ACTION: When sample carry-over is a possibility, professional judgement should be used to determine if instrument cross-contamination has affected any positive compound identification.

11.0 Tentatively Identified Compounds (TIC) (CLP Form I/TIC Equivalent)

11.1 If Tentatively Identified Compound were required for this project, are all Tentatively Identified Compound reporting forms present; and do listed TICs include scan number or retention time, estimated concentration and a qualifier? ☐ ☐ ☒

NOTE: Add "N" qualifier to all TICs which have CAS number, if missing.

NOTE: Have the project officer/appropriate official check the project plan to determine if lab was required to identify non-target analytes (SW-846, page 8260B-23, Sect. 7.6.2).

11.2 Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:

a. Samples and/or fractions as appropriate ☐ ☐ ☒

b. Blanks ☐ ☐ ☒

ACTION: If any TIC data are missing, take action specified in 3.2 above.

ACTION: Add "JN" qualifier only to analytes identified by a CAS#.

NOTE: If TICs are present in the associated blanks take action as specified in section 3.2 above.

YES NO N/A

11.3 Are any priority pollutants listed as TIC compounds (i.e., an BNA compound listed as a VOA TIC)? ☐ ☐ ☒

ACTION: 1. Flag with "R" any target compound listed as a TIC.

2. Make sure all rejected compounds are properly reported if they are target compounds.

11.4 Are all ions present in the reference mass spectrum with a relative intensity greater than 10% (of the most abundant ion) also present in the sample mass spectrum? ☐ ☐ ☒

11.5 Do TIC and "best match" standard relative ion intensities agree within $\pm 20\%$? ☐ ☐ ☒

ACTION: Use professional judgement to determine acceptability of TIC identifications. If it is determined that an incorrect identification was made, change the identification to "unknown" or to some less specific identification (example: "C3 substituted benzene") as appropriate. Also, when a compound is not found in any blank, but is a suspected artifact of a common laboratory contaminant, the result should be qualified as unusable, "R". (Common lab contaminants: CO₂(M/E 44), Siloxanes (M/E 73), Hexane, Aldol Condensation Products, Solvent Preservatives, and related byproducts).

12.0 Compound Quantitation and Reported Detection Limits

12.1 Are there any transcription/calculation errors in organic analysis reporting form results? Check at least two positive values. Verify that the correct internal standard, quantitation ion, and average initial RRF/CF were used to calculate organic analysis reporting form result. Were any errors found? ☒ ☐ ☐

NOTE: Structural isomers with similar mass spectra, but insufficient GC resolution (i.e. percent valley between the two peaks > 25%) should be

YES NO N/A

reported as isomeric pairs. The reviewer should check the raw data to ensure that all such isomers were included in the quantitation (i.e., add the areas of the two coeluting peaks to calculate the total concentration).

12.2 Are the method CRQL's adjusted to reflect sample dilutions and, for soils, sample moisture? ☒ ☐ ☐

ACTION: If errors are large, take action as specified in section 3.2 above.

ACTION: When a sample is analyzed at more than one dilution, the lowest detection limits are used (unless a QC exceedance dictates the use of the higher detection limit from the diluted sample data). Replace concentrations that exceed the calibration range in the original analysis by crossing out the "E" and it's associated value on the original reporting form (if present) and substituting the data from the analysis of the diluted sample. Specify which organic analysis reporting form is to be used, then draw a red "X" across the entire page of all reporting forms that should not be used, including any in the summary package.

13.0 Standards Data (GC/MS)

13.1 Are the Reconstructed Ion Chromatograms, and data system printouts (Quant Reports) present for initial and continuing calibration? ☒ ☐ ☐

ACTION: If any calibration standard data are missing, take action specified in section 3.2 above.

14.0 GC/MS Initial Calibration (CLP Form VI Equivalent)

YES NO N/A

14.1 Are the Initial Calibration reporting forms present and complete for the volatile fraction? ☒ ☐ ☐

ACTION: If any calibration forms or standard raw data are missing, take action specified in section 3.2 above.

ACTION: If the percent relative standard deviation (% RSD) is > 20%, (8000C-39) qualify positive results for that analyte "J". When % RSD > 90%,. Qualify all positive results for that analyte "J" and all non-detects results for that analyte "R".

14.2 Are all average RRFs > 0.050? ☒ ☐ ☐

NOTE: (Method Requirement) For SPCC compounds, the individual RRF values must be \geq the values in the following list. If individual RRF values reported are below the listed values document in the Data Assessment.

Chloromethane	0.10
1,1-Dichloroethane	0.10
Bromoform	0.10
Chlorobenzene	0.30
1,1,2,2-Tetrachloroethane	0.30

ACTION: Circle all outliers with red pencil.

ACTION: For any target analyte with average RRF < 0.05, or for the requirements for the 5 compounds in 14.2 above, qualify all positive results for that analyte "J" and all non-detect results for that analyte "R".

14.3 Are response factors stable over the concentration range of the calibration. ☒ ☐ ☐

NOTE: (Method Requirement) For the following CCC compounds, the %RSD values must be \leq 30.0%. If %RSD values reported are > 30.0% document in the Data Assessment.

YES NO N/A

1,1-Dichloroethene
Chloroform
1,2-Dichloropropane
Toluene
Ethylbenzene
Vinyl chloride

ACTION: Circle all outliers with a red pencil.

ACTION: If the % RSD is > 20.0%, or > 30% for the 6 compounds in 14.3 above, qualify positive results for that analyte "J" and non-detects using professional judgement. When RSD > 90%, qualify all positive results for that analyte "J" and all non-detect results for that analyte "R".

NOTE: The above data qualification action applies regardless of method requirements.

NOTE: Analytes previously qualified "U" due to blank contamination are still considered as "hits" when qualifying for calibration criteria.

14.4 Was the % RSD determined using RRF or CF? ☒ ☐ ☐

If no, what method was used to determine the linearity of the initial calibration? Document any effects to the case in the Data Assessment.

14.5 Are there any transcription/calculation errors in the reporting of RRF or % RSD? (Check at least two values but if errors are found, check more.) ☐ ☒ ☐

ACTION: Circle errors with a red pencil.

ACTION: If errors are large, take action as specified in section 3.2 above.

15.0 GC/MS Calibration Verification (CLP Form VII Equivalent)

YES NO N/A

15.1 Are the Calibration Verification reporting forms present and complete for all compounds of interest? ☒ ☐ ☐

15.2 Has a calibration verification standard been analyzed for every twelve hours of sample analysis per instrument? ☒ ☐ ☐

ACTION: List below all sample analyses that were not within twelve hours of a calibration verification analysis for each instrument used.

ACTION: If any forms are missing or no calibration verification standard has been analyzed twelve hours prior to sample analysis, take action as specified in section 3.2 above. If calibration verification data are not available, flag all associated sample data as unusable ("R").

15.3 Was the % D determined from the calibration verification determined using RRF or CF? ☒ ☐ ☐

If no, what method was used to determine the calibration verification? Document any effects to the case in the Data Assessment.

15.4 Do any volatile compounds have a % D (difference or drift) between the initial and continuing RRF or CF which exceeds 20% (SW-846, page 8260B-19, section 7.4.5.2). ☒ ☐ ☐

NOTE: (Method Requirement) For the following CCC compounds, the %D values must be $\leq 20.0\%$. If %D values reported are $> 20.0\%$ document in the Data Assessment.

	(03/23/10)	acetone = 30
1,1-Dichloroethene		4-methyl-2-pentanone = 24
Chloroform	* Not COC and not detected, therefore no further action.	
1,2-Dichloropropane		
Toluene		
Ethylbenzene		
Vinyl chloride		

YES NO N/A

ACTION: Circle all outliers with a red pencil.

ACTION: Qualify both positive results and non-detects for the outlier compound(s) as estimated, "J". When %D is above 90%, qualify all positive results for that analyte "J" and all non-detect results for that analyte "R".

NOTE: The above data qualification action applies regardless of method requirements.

15.5 Do any volatile compounds have a RRF < 0.05? ☐ ☒ ☐

NOTE: (Method Requirement) For SPCC compounds, the individual RRF values must be \geq the values in the following list for each calibration verification. If average RRF values reported are below the listed values document in the data assessment.

Chloromethane	0.10
1,1-Dichloroethane	0.10
Bromoform	0.10
Chlorobenzene	0.30
1,1,2,2-Tetrachloroethane	0.30

ACTION: Circle all outliers with a red pencil.

ACTION: If RRF < 0.05, or < the the requirements for the 5 compounds is section 15.5 above, qualify all positive results for that analyte "J" and all non-detect results for that analyte "R".

NOTE: The above data qualification action applies regardless of method requirements.

16.0 Internal Standards (CLP Form VIII Equivalent)

16.1 Are the internal standard (IS) areas on the internal standard reporting forms of every sample and blank within the upper and lower limits (-50% to + 100%) for each initial mid-point calibration (SW-846, 8260B-20, Sect. 7.4.7)? ☒ ☐ ☐

YES NO N/A

ACTION: If errors are large or information is missing, take action as specified in section 3.2 above.

ACTION: List each outlying internal standard below.

Sample ID	IS #	Area Lower Limit	Area Upper Limit
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(Attach additional sheets if necessary.)

- ACTION:
1. If the internal standard area count is outside the upper or lower limit, flag with "J" all positive results quantitated with this internal standard.
 2. Do not qualify non-detects when the associated IS are counts area > + 100%.
 3. If the IS area is below the lower limit (< - 50%), qualify all associated non-detects (U-values) "J".
 4. If extremely low area counts are reported (< - 25%) or if performance exhibits a major abrupt drop off, flag all associated non-detects as unusable "R" and positive results as estimated "J".

16.2 Are the retention times of all internal standards within 30 seconds of the associated initial mid-point calibration standard (SW-846, 8260B-20, Sect. 7.4.6)? [X]

ACTION: Professional judgement should be used to qualify data if the retention times differ by more than 30 seconds.

YES NO N/A

17.0 Field Duplicates

17.1 Were any field duplicates submitted for
volatile analysis?

☒ ☐ ☐

ACTION: Compare the reported results for field duplicates and
calculate the relative percent difference.

ACTION: Any gross variation between field duplicate
results must be addressed in the Data Assessment.
However, if large differences exist, take action
specified in section 3.2 above.

EB-01 Acetone 14J chloroform 3J 4/13/10
 EB-02 Acetone 13J chloroform 3J KEG
 EB-02 Acetone 14J chloroform 2J

	Acetone	Chloroform
P-7	ND	ND
P-7A	ND	ND
<u>P-10A</u>	ND	1J u
P-15DD	ND	ND
P-16S	ND	ND
DuP-01	ND	ND
P-17D	ND	ND
P-18S	ND	ND
P-18D	ND	ND
<u>DuP-02</u>	ND	ND
P-19S	ND	ND
P-19D	ND	1J u
P-20S	ND	ND
P-20D	ND	ND

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP09915 Calibration Date: 03/23/10 Time: 09:39

Lab File ID: lm23c01.d Init. Calib. Date(s): 03/04/10 03/04/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
Dichlorodifluoromethane	0.4383	0.4309	49.16	50	-2
# Chloromethane	0.2795	0.2279	40.77	50	-18 #
* Vinyl Chloride	0.2612	0.2280	43.65	50	-13 *
Bromomethane	0.1835	0.1689	46.00	50	-8
Chloroethane	0.1394	0.1230	43.93	50	-12
Trichlorofluoromethane	0.4685	0.4638	49.49	50	-1
Ethyl Ether	0.2008	0.1333	33.17	50	-34
Acrolein	2.1683	2.3523	542.41	500	8
* 1,1-Dichloroethene	0.2443	0.2473	50.62	50	1 *
Freon 113	0.2546	0.2791	54.80	50	10
Acetone	0.1420	0.0994	70.00	100	-30
2-Propanol	0.8559	0.6274	183.26	250	-27
Methyl Iodide	0.5098	0.5013	49.17	50	-2
Carbon Disulfide	0.8466	0.8806	52.01	50	4
Allyl Chloride	0.4706	0.4704	49.98	50	0
Methyl Acetate	0.3554	0.3562	50.12	50	0
Methylene Chloride	0.3067	0.3026	49.32	50	-1
t-Butyl Alcohol	1.3518	1.0770	199.17	250	-20
Acrylonitrile	0.1840	0.1687	45.86	50	-8
trans-1,2-Dichloroethene	0.2904	0.2856	49.18	50	-2
Methyl Tertiary Butyl Ether	0.9728	0.9073	46.63	50	-7
n-Hexane	0.3903	0.4434	56.80	50	14
1,2-Dichloroethene (total)	0.2993	0.2936	98.11	100	-2
# 1,1-Dichloroethane	0.5329	0.5406	50.72	50	1 #
di-Isopropyl Ether	1.0642	1.0133	47.61	50	-5
2-Chloro-1,3-Butadiene	0.4471	0.4446	49.72	50	-1
Ethyl t-Butyl Ether	0.9546	0.8687	45.50	50	-9
cis-1,2-Dichloroethene	0.3081	0.3015	48.93	50	-2
2-Butanone	0.2561	0.2128	83.08	100	-17
2,2-Dichloropropane	0.3979	0.3845	48.32	50	-3
Propionitrile	1.7243	1.9537	283.26	250	13
Methacrylonitrile	0.1902	0.1712	112.53	125	-10
Bromochloromethane	0.1539	0.1488	48.34	50	-3
Tetrahydrofuran	1.4651	1.6449	112.27	100	12
* Chloroform	0.5148	0.4994	48.50	50	-3 *
1,1,1-Trichloroethane	0.4839	0.4413	45.60	50	-9

FTL85 8259

Minimum RRF for SPCC(#) = 0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*) = 20%

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID: HP09915 Calibration Date: 03/23/10 Time: 09:39
 Lab File ID: lm23c01.d Init. Calib. Date(s): 03/04/10 03/04/10
 Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
=====	=====	=====	=====	=====	=====
Cyclohexane	0.4943	0.5131	51.90	50	4
Cyclohexane(mz 84)	0.3991	0.4196	52.57	50	5
Cyclohexane(mz 69)	0.1431	0.1482	51.79	50	4
1,1-Dichloropropene	0.4018	0.3914	48.70	50	-3
Carbon Tetrachloride	0.3653	0.3715	50.84	50	2
Isobutyl Alcohol	0.4771	0.4390	574.97	625	-8
Benzene	1.1856	1.1297	47.64	50	-5
1,2-Dichloroethane	0.4272	0.4117	48.18	50	-4
1,2-Dichloroethane(mz 98)	0.0366	0.0341	46.60	50	-7
t-Amyl Methyl Ether	0.9172	0.8235	44.89	50	-10
n-Heptane	0.4195	0.4379	52.20	50	4
n-Butanol	0.4036	0.3648	1129.73	1250	-10
Trichloroethene	0.3051	0.2970	48.68	50	-3
Methylcyclohexane	0.4935	0.5014	50.80	50	2
Methylcyclohexane(mz98)	0.2221	0.2265	50.97	50	2
* 1,2-Dichloropropane	0.3320	0.3195	48.11	50	-4 *
Dibromomethane	0.2154	0.2110	48.99	50	-2
Methyl Methacrylate	0.3067	0.2791	45.51	50	-9
1,4-Dioxane	0.1281	0.0778	379.67	625	-39
Bromodichloromethane	0.3671	0.3620	49.31	50	-1
2-Nitropropane	0.1103	0.0957	86.79	100	-13
2-Chloroethyl Vinyl Ether	0.2624	0.2495	47.54	50	-5
cis-1,3-Dichloropropene	0.4906	0.4744	48.35	50	-3
4-Methyl-2-Pentanone	0.5717	0.4368	76.41	100	-24
* Toluene	0.9987	0.9331	46.71	50	-7 *
trans-1,3-Dichloropropene	0.6395	0.6285	49.14	50	-2
Ethyl Methacrylate	0.7085	0.6717	47.40	50	-5
1,1,2-Trichloroethane	0.3949	0.3771	47.75	50	-5
Tetrachloroethene	0.4238	0.4199	49.53	50	-1
1,3-Dichloropropane	0.7007	0.6728	48.01	50	-4
2-Hexanone	0.6585	0.4603	69.89	100	-30
Dibromochloromethane	0.4209	0.4215	50.07	50	0
1,2-Dibromoethane	0.4473	0.4312	48.20	50	-4
# Chlorobenzene	1.1418	1.0980	48.08	50	-4 #
1,1,1,2-Tetrachloroethane	0.3909	0.3881	49.64	50	-1
* Ethylbenzene	1.9094	1.9209	50.30	50	1 *

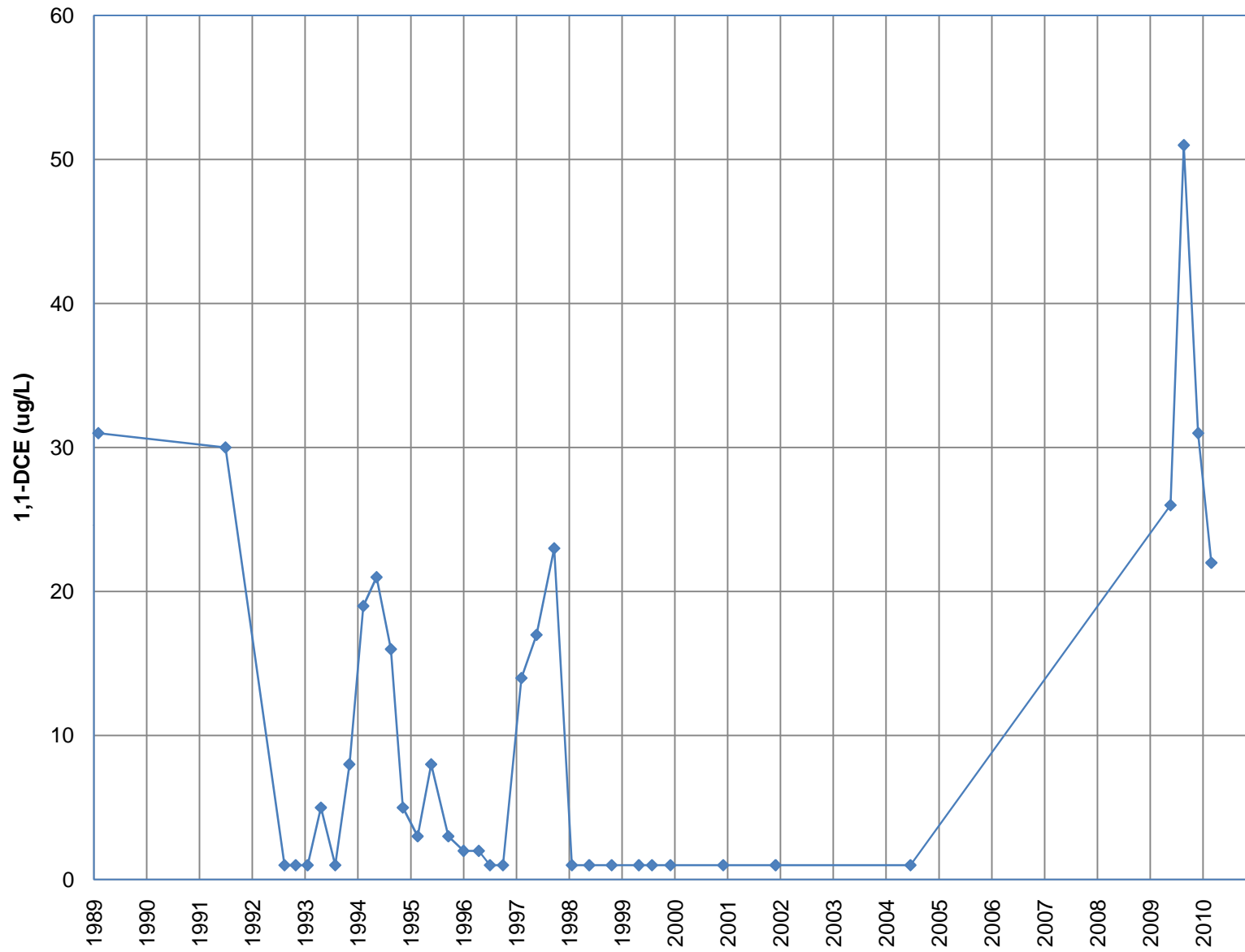
PTL05 0260

Minimum RRF for SPCC(=)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
 Maximum %Drift for CCC(*)=20%

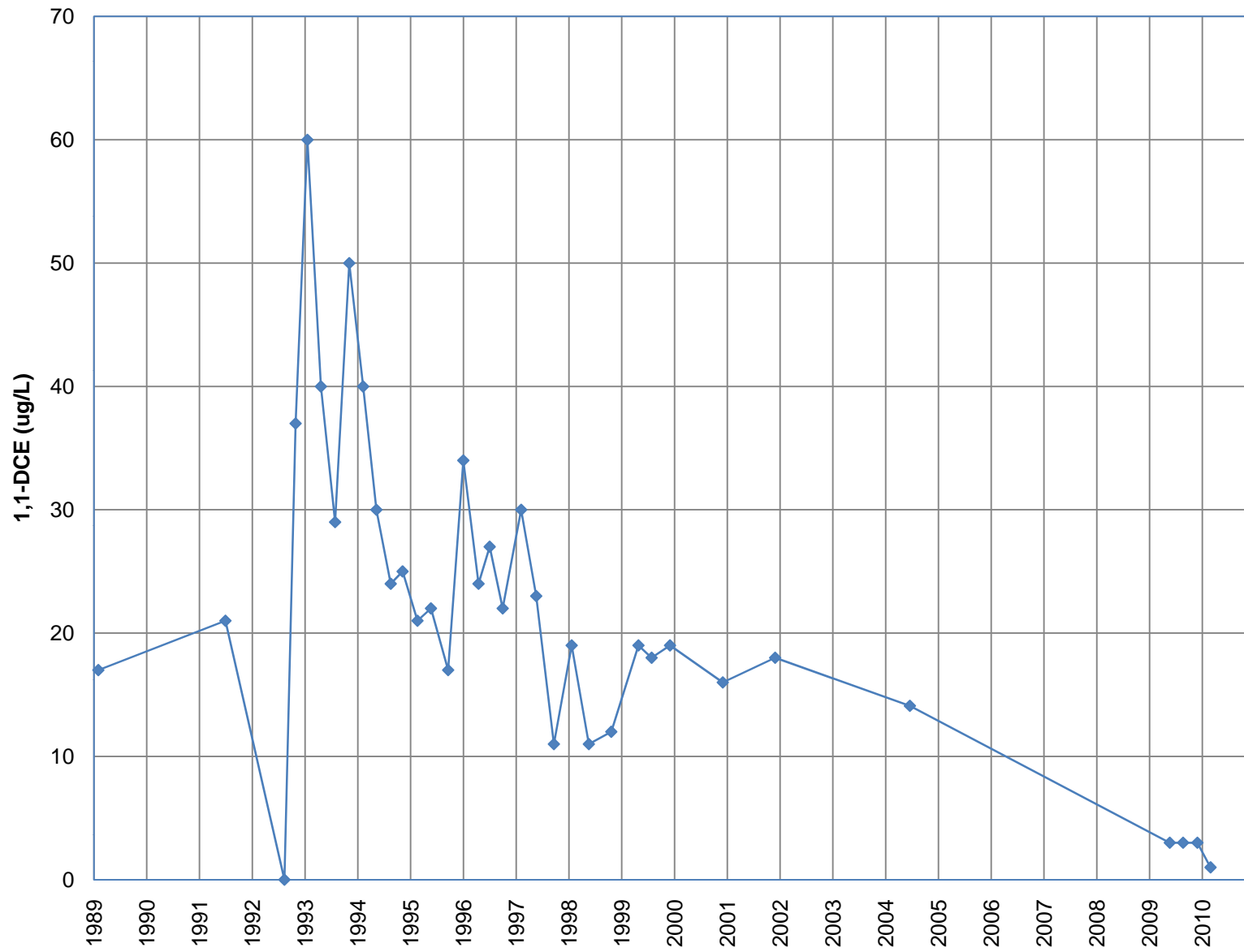
APPENDIX C

1,1-DCE TREND GRAPHS

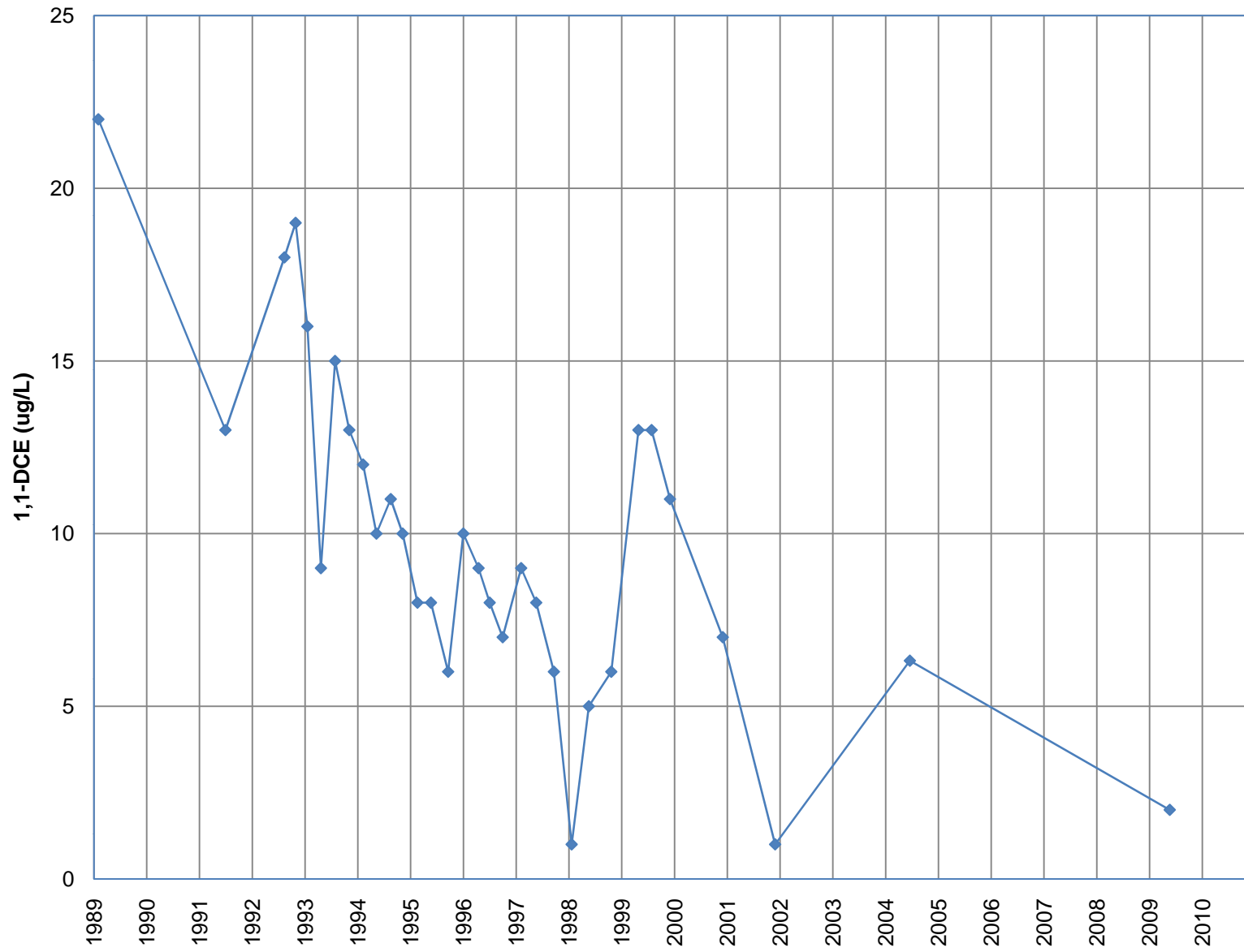
P-7



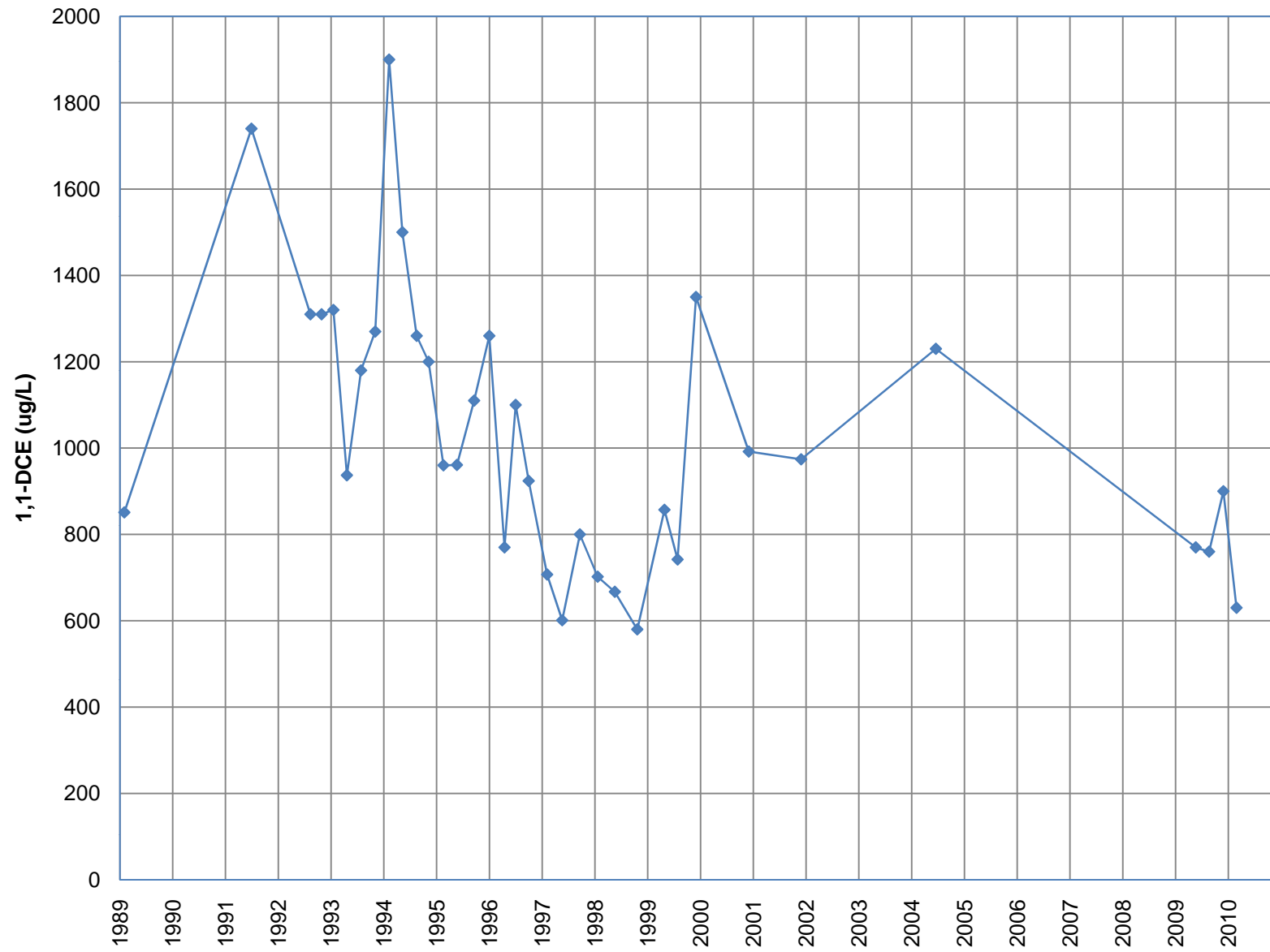
P-7A



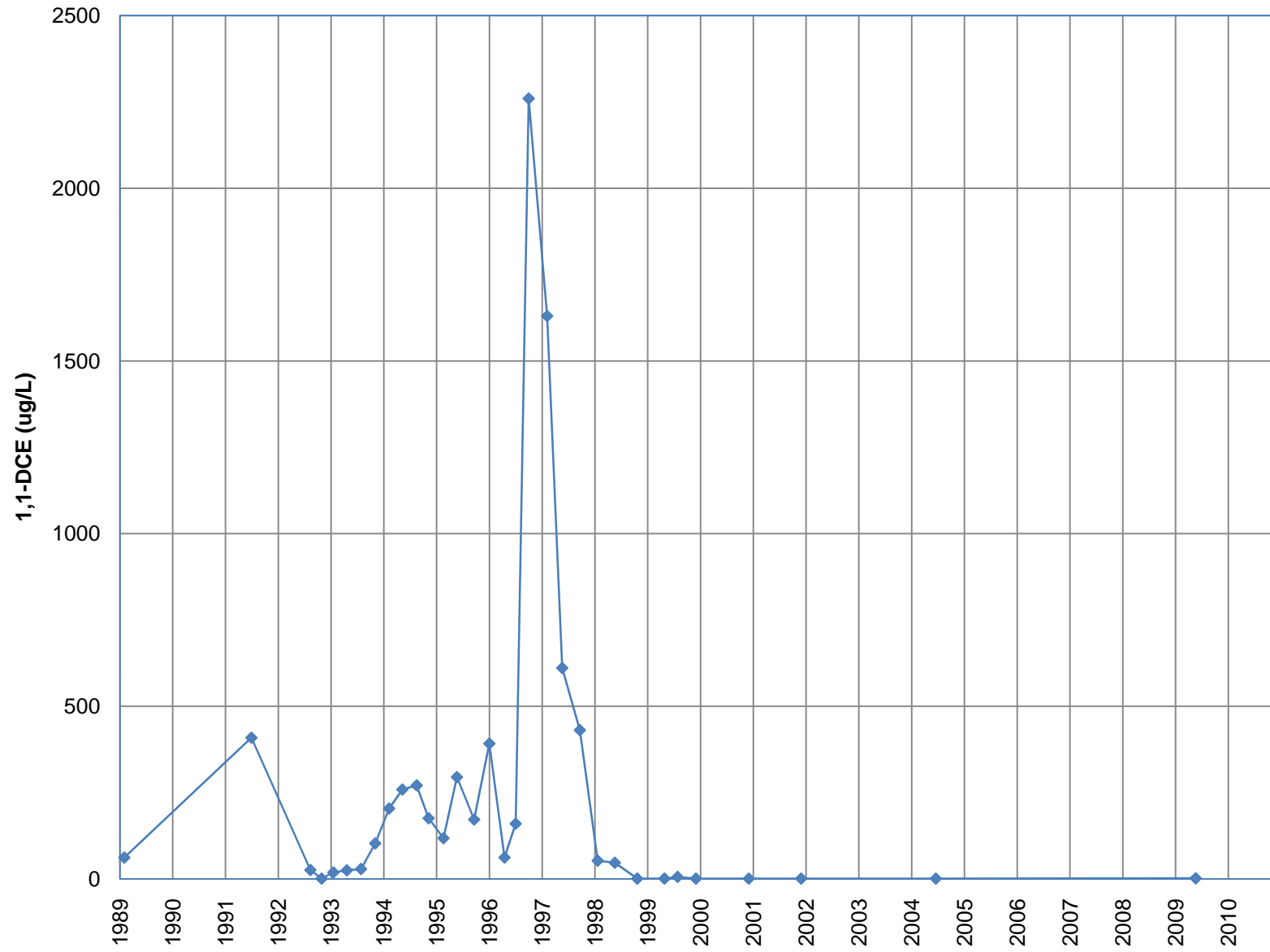
P-9



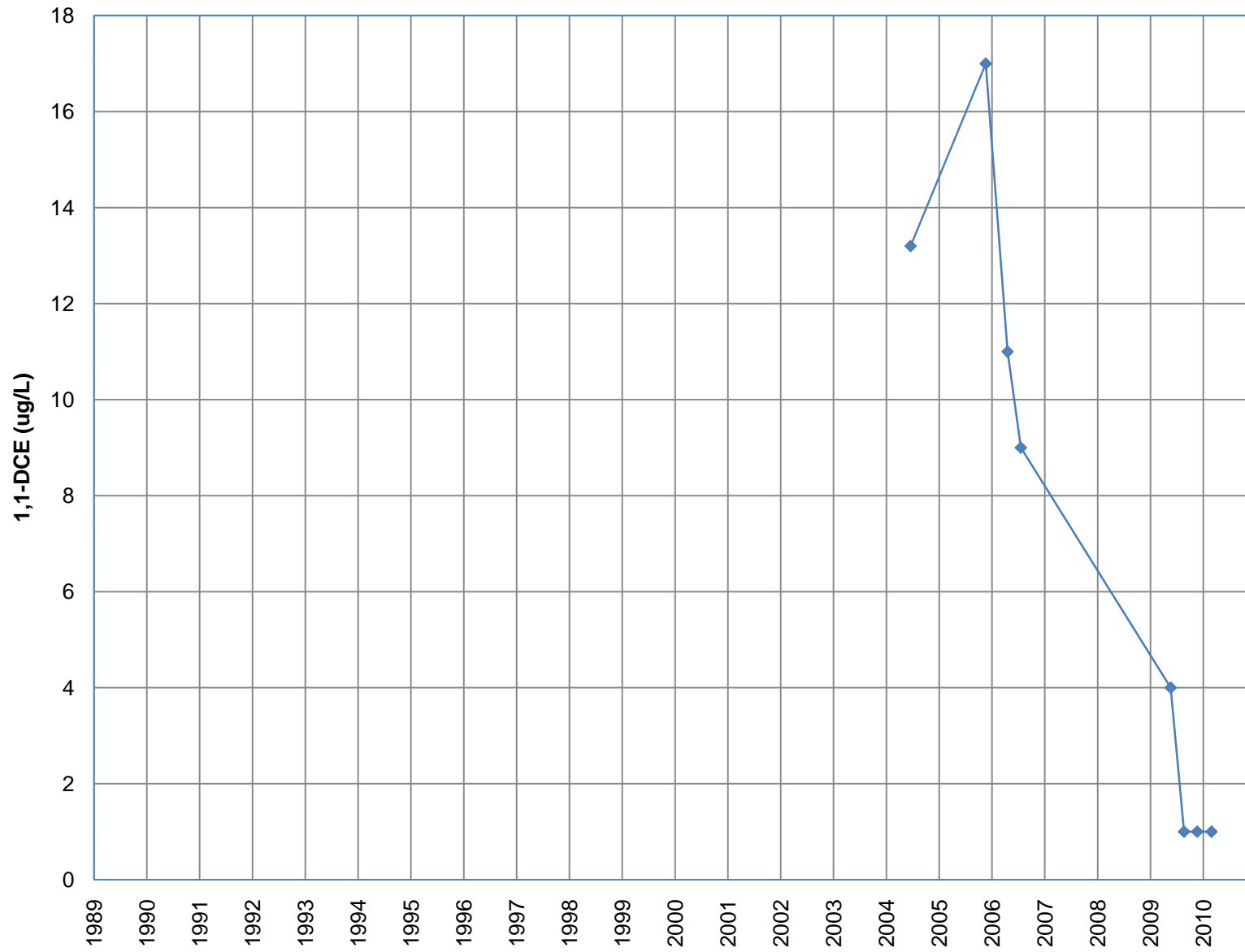
P-10A



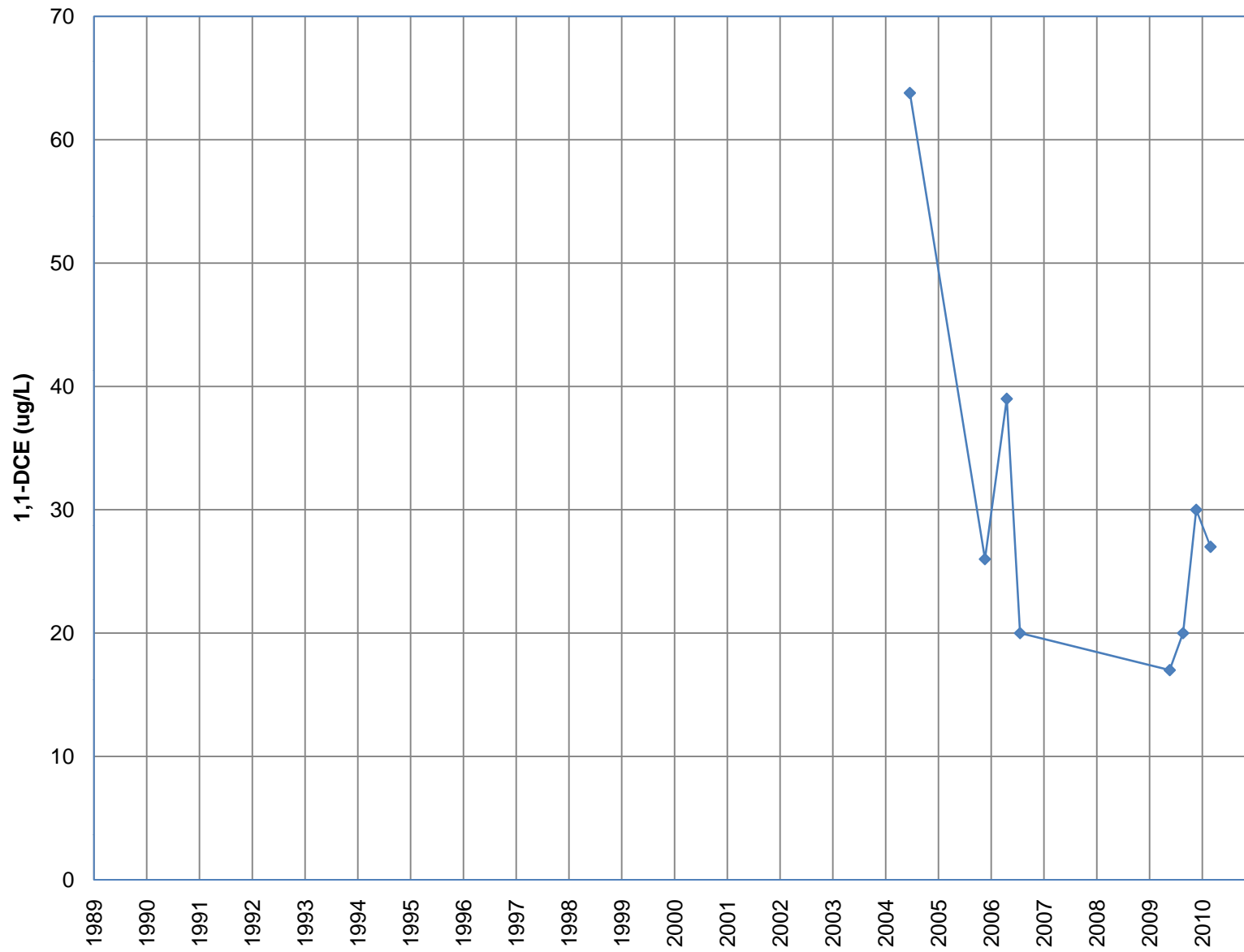
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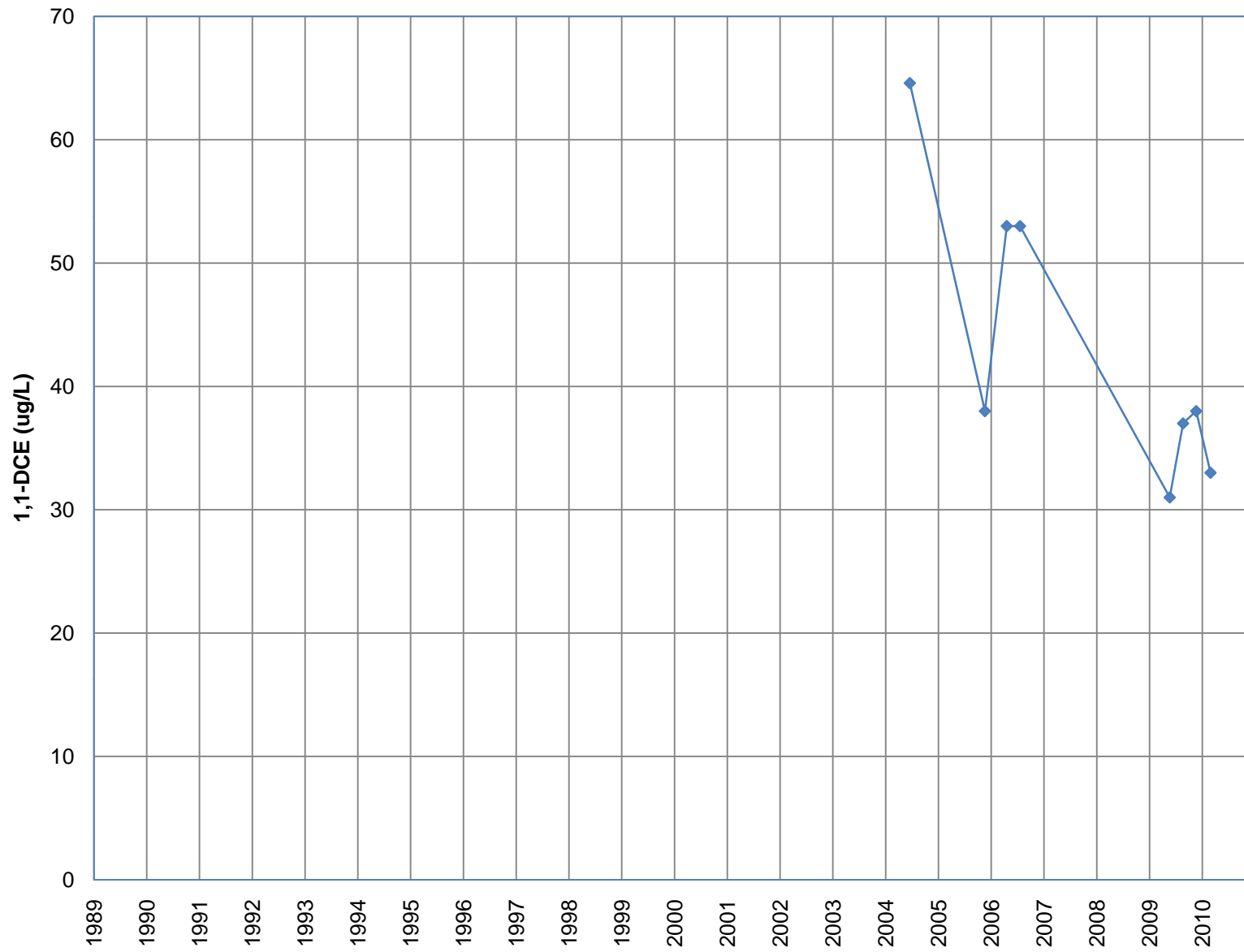
P-16S



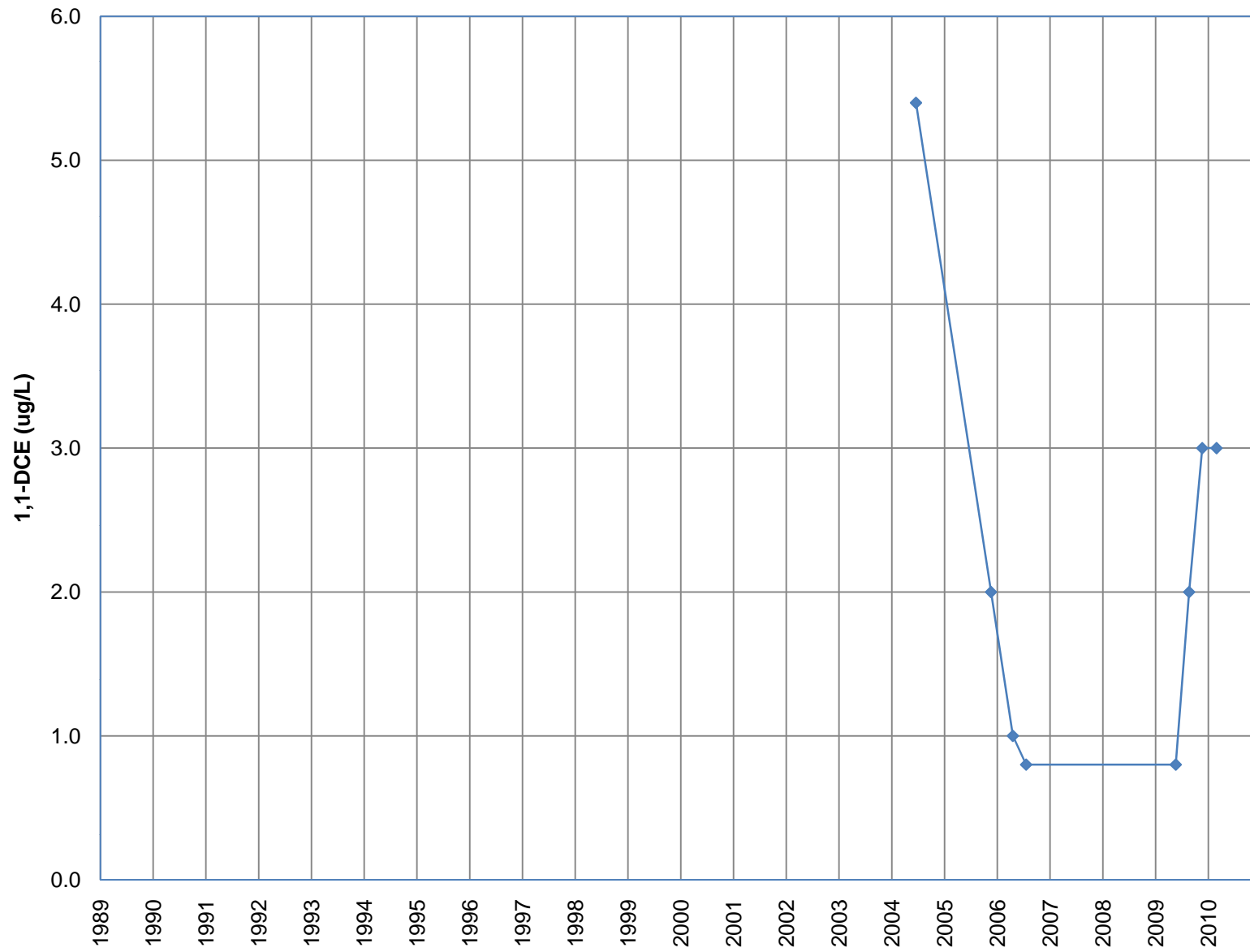
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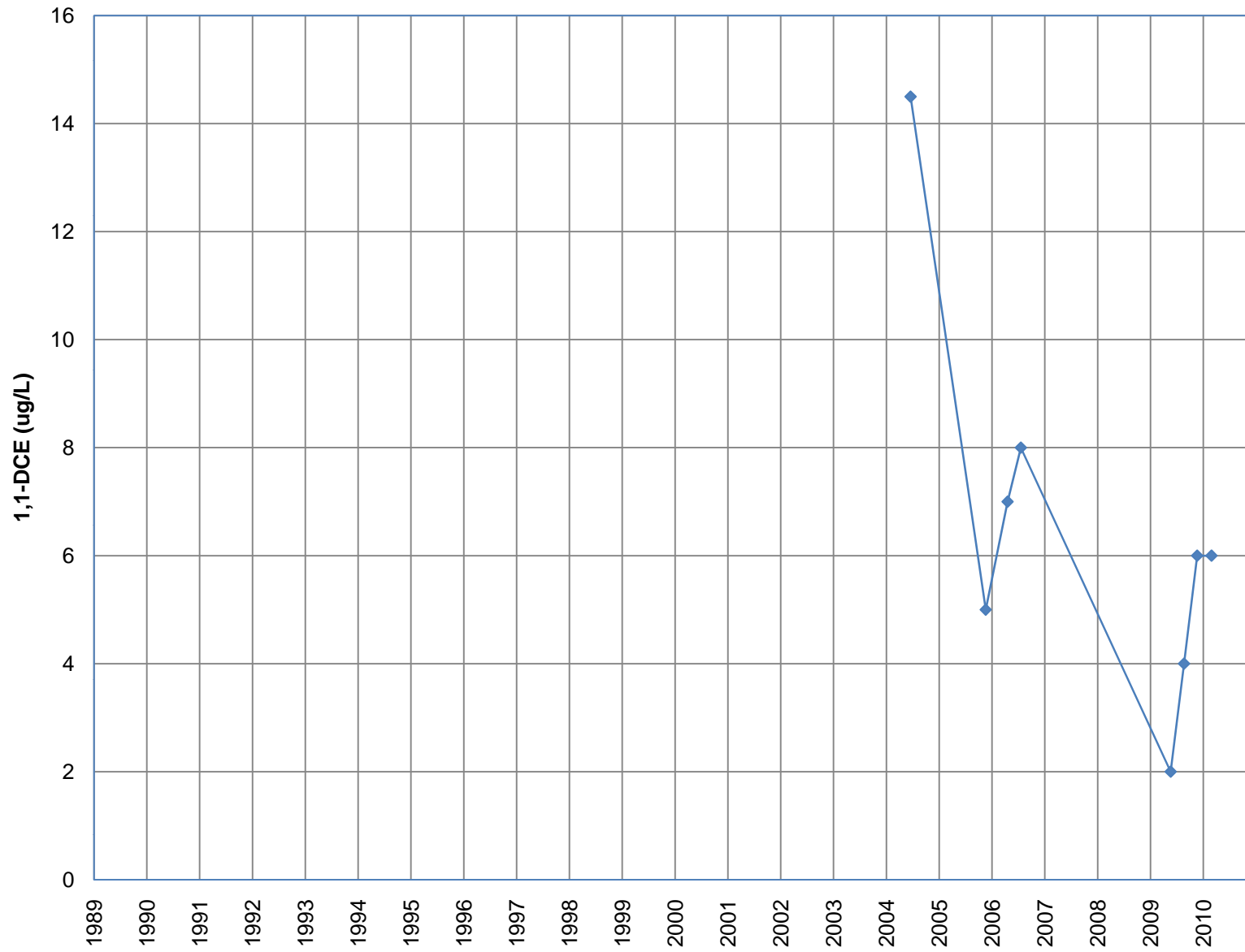
P-18D



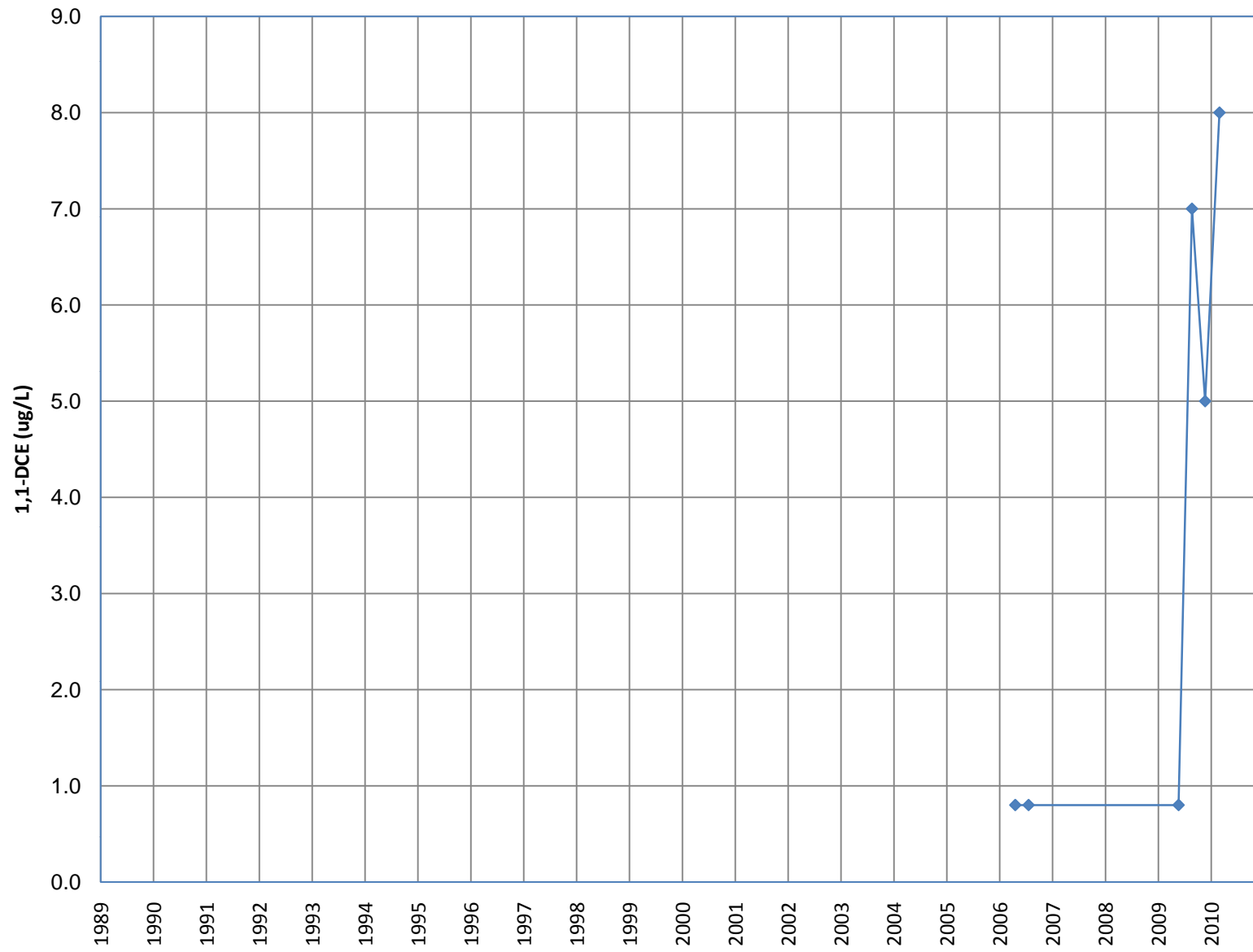
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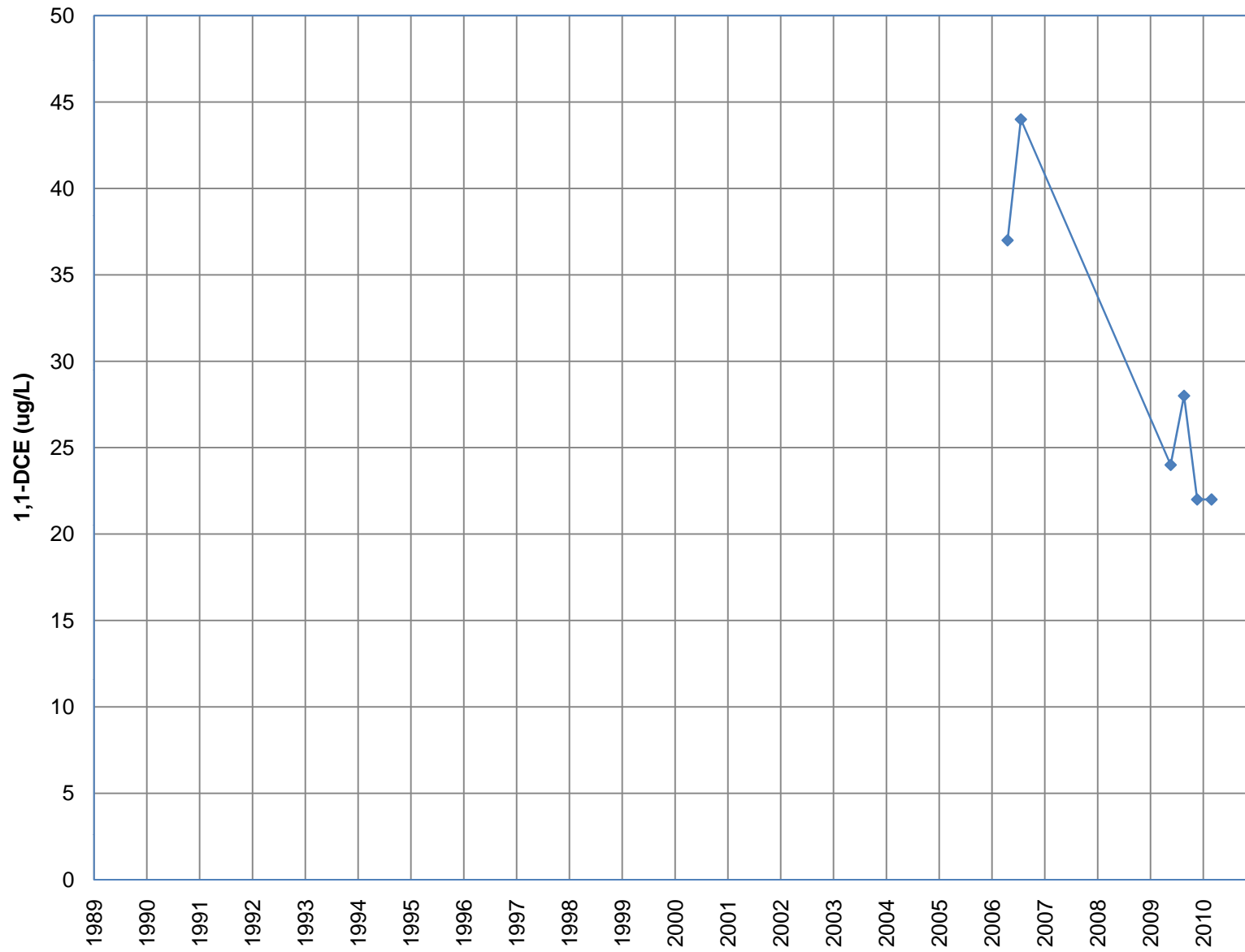
P-19D



P-20S



P-20D



APPENDIX D

PROGRESS REPORT

Progress Report for this reporting period (January 30 through May 1, 2010). The Progress Report was prepared in accordance with Section V.C. of the facility's Administrative Order on Consent (Order) dated March 29, 1988, and approved revisions (January 26, 2010).

i. Description and estimate of the percentage of the project completed

The project is approximately 70 percent complete. The following table outlines the status of the major project milestones.

Activity	Status
Preliminary Site Investigation	Complete (1986)
Closure of Drying Beds	Complete (1987); Approved (2005)
Interim Corrective Measures (French Sump Removal)	Complete (1990); Approved (1991)
RCRA Facility Investigation	Complete (1992); Approved (1992)
Corrective Measures Study	Complete (1993); Not Approved (1993)
Human Exposures Under Control (CA725)	Complete (2004)
Supplemental RCRA Facility Investigation	Complete (2005); Not Approved (2005)
Groundwater Contamination Under Control (CA750)	Pending
Corrective Measures Implementation	Pending
Site Closure	Pending

Following the closure of the Drying Beds and the French sump, GE performed a RCRA Facility Investigation (RFI) in 1992. The RFI was subsequently approved by USEPA, and GE proceeded to perform a Corrective Measures Study (CMS) to address groundwater impacted by volatile organic compounds (VOCs) originating from the French sump. The results of the CMS indicated that monitored natural attenuation was an acceptable corrective measure for addressing impacted groundwater. In 1993, GE began monitoring groundwater as a self-implementation.

In 2000, USEPA expressed concern that the CMS could not be approved due to insufficient groundwater characterization (e.g., the downgradient edge of the impacted groundwater had not been defined). In 2003, USEPA and GE agreed that further investigation would be performed.

In 2005, GE performed a Supplemental RFI to further characterize the extent of impacted groundwater and to further evaluate the use of monitored natural attenuation as a corrective measure. USEPA did not approve the Supplemental RFI as it felt further delineation was required. USEPA and GE then agreed that GE would perform additional offsite groundwater sampling to address the data gaps identified in the Supplemental RFI. Subsequent to this agreement, GE was

unable to secure site access from property owner(s) located southwest of the Site. Consequently, GE was unable to perform the requested groundwater sampling. A *Groundwater Modeling Work Plan* (2007) was then developed and submitted to USEPA with the intent of delineating the extent of impacted groundwater by using a computer model. The information obtained from executing this work plan would also be used to document the remaining Environmental Indicator Determination (*Groundwater Contamination Under Control - CA750*), which is currently pending.

GE received approval from USEPA to execute the *Groundwater Modeling Work Plan* in May 2009. GE initiated this work in June 2009 and submitted the draft results to USEPA and EQB in September 2009. GE then monitored groundwater for one year. The results of these monitoring events (June, September, December 2009, and March 2010) have been submitted to USEPA. GE will discuss the approach for future monitoring with USEPA (additional monitoring is not currently scheduled). After completing the groundwater delineation, GE plans to address the USEPA's comments on the CMS and Supplemental RFI. Following approval of these documents, GE will implement the final corrective measures for the Site with the intent of obtaining site closure.

ii. Summaries of all findings

Sludge drying beds were removed from the Site in 1989. To evaluate possible impacts to groundwater, monitoring was performed for three years following closure activities. Based on three years of post-closure groundwater monitoring, impacts were not identified, and USEPA provided an Approval of Clean Closure for the sludge drying beds.

A French sump was formerly located onsite and used for waste disposal from 1977 until 1980. Wastes included treated wastewater sludge, waste oils, and spent solvents. In 1990, the French sump was removed as part of the Interim Measures. Completion of the Interim Corrective Measures was approved by USEPA in 1991. Although the French sump was removed in 1990, residual groundwater impacts have been noted during the RFI (1992) and the Supplemental RFI (2005). The constituents of concern associated with the former French Sump include VOCs. The primary VOCs of concern include 1,1,1-trichloroethane (1,1,1-TCA) and 1,1-dichloroethene (1,1-DCE). The extent of groundwater impacted by 1,1,1-TCA does not extend off of GE's property. Historical sample results for 1,1,1-TCA range from non-detect to 586 micrograms per liter (µg/L). The extent of groundwater impacted by 1,1-DCE extends off-site (south-southwest) towards the Rio Chico and Rio Grande. Historical sample results for 1,1-DCE range from non-detect to 1,230 µg/L. The highest offsite sample result for 1,1-DCE is 110 µg/L (located approximately 250 feet southwest of the Site). VOC concentrations in groundwater samples collected near the former French sump have decreased.

The results from the previous sampling events indicate that the highest VOC concentrations (primarily 1,1-DCA and 1,1-DCE) were detected in the sample collected from well P-10A, which is located onsite and downgradient of the former French sump. The 1,1-DCE concentration for the farthest downgradient monitoring well sampled (MW-20D, approximately 1,300 feet southwest of the

former French sump) is approximately 22 to 28 µg/L. The extent of 1,1-DCE in the shallow zone is MW-20S. For the deep zone, the extent is not defined by the downgradient monitoring wells, but based on recent groundwater modeling is bound by the Rio Grande.

The most recent results from the March 2010 sampling event are enclosed and discussed in Section 4.0.

iii. Summaries of all changes made in the project during the reporting period

Progress reports are now submitted on a quarterly basis and included with Groundwater Monitoring Reports (as appropriate).

The draft *Groundwater Modeling Report* was submitted to USEPA and EQB on September 4, 2009. Informal comments regarding the results presented in this draft report have been received from USEPA.

The *Groundwater Monitoring Report* for September 2009 was submitted to USEPA and EQB on November 30, 2009. Informal comments regarding the results presented in this report have been received from USEPA.

A meeting between USEPA and GE was held on April 22, 2010, to discuss the extent of impacted groundwater and the need for further downgradient characterization.

An announcement was made that the facility will no longer be operational as of the summer of 2010.

iv. Summaries of all contacts with representatives of local community, public interest groups or State government during the reporting period

A conference call was held on March 15, 2010, and attended by Jesse Aviles (USEPA), Andrew Graham (GE), Kim Kesler-Arnold (MWH), and Marc Gesink (MWH). The modeling and monitoring reports prepared by GE and submitted to USEPA were discussed during this conference call.

A representative from EQB (Josephine Acevedo) was present onsite during the groundwater monitoring field work performed during the week of March 15, 2010.

v. Summaries of all problems or potential problems encountered during the reporting period

None.

vi. Actions being taken to rectify problems

None.

vii. Changes in personnel during the reporting period

None.

viii. Projected work for the next reporting period

Development of a groundwater monitoring plan and further negotiations with USEPA regarding characterization of impacted groundwater.

ix. Copies of daily reports, inspections reports, laboratory/monitoring data, etc.

Field data sheets and laboratory data for the March 2010 sampling event are enclosed.